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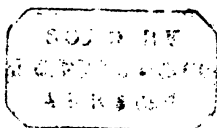
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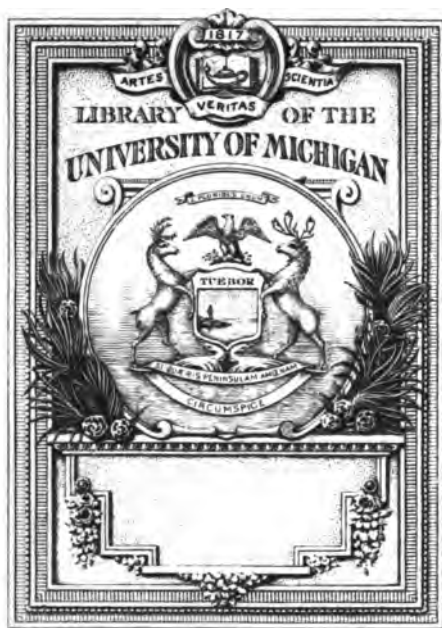
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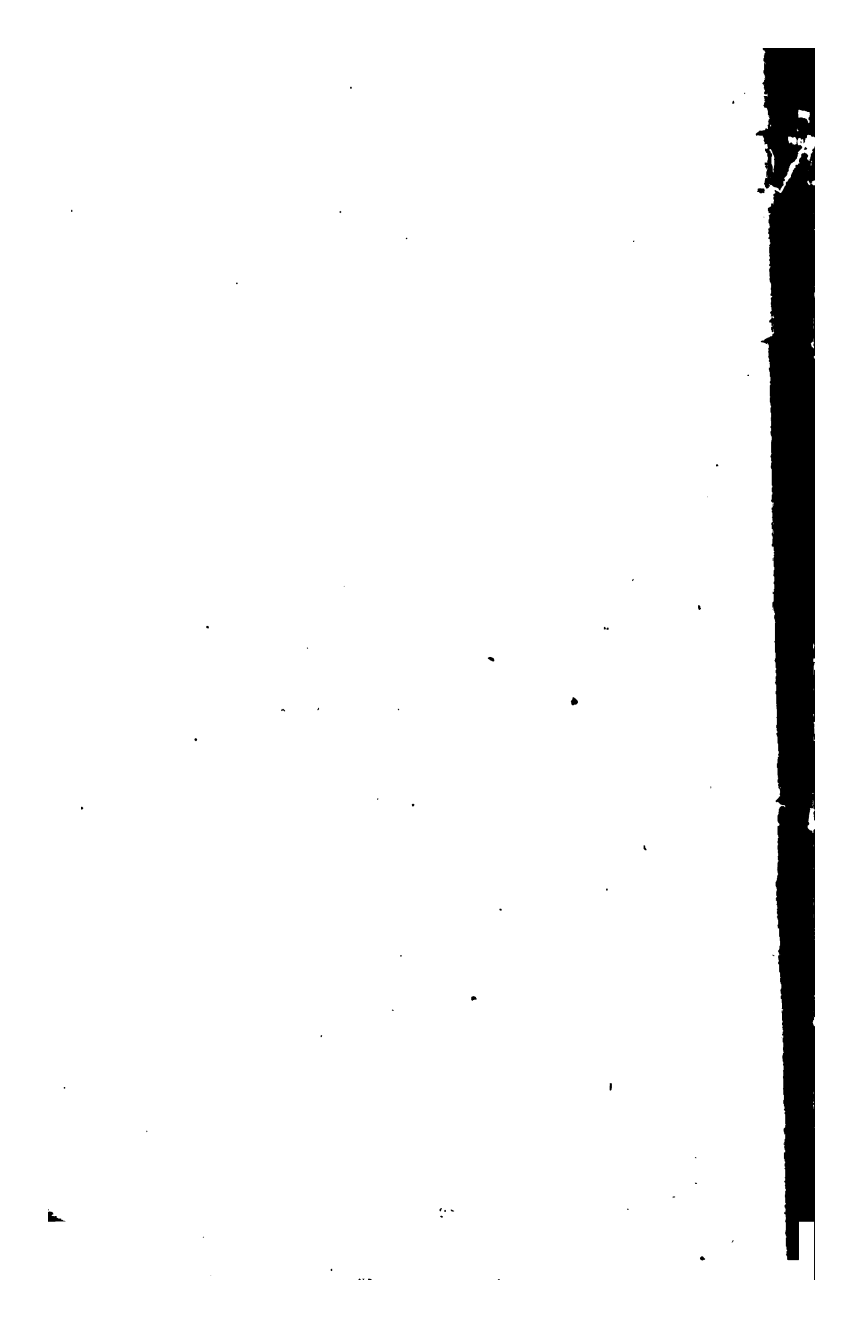


Henry Mills
Nov. 1841

Henry Mills

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Nov. 1841



LOGARITHMIC AND TRIGONOMETRIC

TABLES;

TO

SEVEN PLACES OF DECIMALS,

IN A POCKET FORM.

IN WHICH

THE ERRORS OF FORMER TABLES ARE CORRECTED.

Ordinary
BY F. R. HASSLER, M. A. P. S.

Stereotyped by William Hagar & Co. New-York.



NEW-YORK:

PUBLISHED BY C. & G. & H. CARVILL,

NO. 108 BROADWAY.

1830.

Southern District of New-York, ss.

* L. S. * BE IT REMEMBERED, That on the 10th day
* of February, A. D. 1830, in the fifty-fourth year of the
* Independence of the United States of America, F. R.
***** Hassler, of the said District, hath deposited in this
office the title of a Book, the right whereof he claims
as Author, in the words following, to wit:

"Logarithmic, and Trigonometric tables, to seven places of Decimals,
in a Pocket Form, in which the errors of former tables are corrected,
by F. R. Hassler, M. A. P. S.—Stereotyped by William Hagar
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engraving, and etching historical and other prints."

FRED. J. BETTS,

Clerk of the Southern District of New-York.



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H. T. Science
H. T. Science
4242
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INTRODUCTION.

UPON THE TABLES OF COMMON LOGARITHMS.

§ 1. Any quantity may be represented under the form of a power of another given quantity. With quantities thus represented the arithmetical operations of multiplication, division, raising to powers, either whole or fractional, are executed upon the exponents, by an operation always one degree less complicated, than when executed upon the quantities in their common form, viz: multiplication by the addition of the exponents, division by their subtraction, raising into powers, whole or fractional, by multiplication with the proper exponent, either whole or fractional. Thus, therefore, all quantities whatsoever, may be expressed by certain powers of one and the same quantity, taken as the *Base of the system*, and with such a base ($=b$) we have the following algebraic form of the above four operations.

$$b^n b^m = b^{n+m}; \frac{b^n}{b^m} = b^{n-m}; (b^n)^m = b^{n \cdot m}; (b^n)^{\frac{p}{q}} = b^{\frac{np}{q}}$$

To the exponents corresponding to any number thus expressed by the power of some one general base, has been given the denomination of *Logarithms*, and the system forms what is called a logarithmic system.

§ 2. This principle gives rise to an arithmetic series, whose first term is $=0$, and which corresponds term for term to a geometric series of rapid increase, whose first term is $=1$: thus,

$$\text{Logarithms} = 0; 1; 2; 3; 4; 5; 6; \&c.$$

$$\text{Number} = 1; b^1; b^2; b^3; b^4; b^5; b^6; \&c.$$

There may evidently be an infinite number of logarithmic systems; the most usual for practical calculation, is that which is adapted to our decimal system of numeration, and which makes $b=10$. it therefore presents the following numerical series.

$$\text{Logarithms} = 0; 1; 2; 3; 4; 5; \&c.$$

$$\text{Numbers} = \left\{ \begin{array}{l} 1; 10^1; 10^2; 10^3; 10^4; 10^5; \&c. \\ 1; 10; 100; 1000; 10000; 100000; \&c. \end{array} \right.$$

In this system the whole numbers in the exponents or logarithms, are evidently indicative of the number of digits in the number itself, and are always one less than this number of digits; thence this whole number is called the *Characteristic* of the logarithm. Any number intermediate between any two powers of ten, will therefore contain, besides the characteristic proper to the number of its digits, an approximating decimal fraction (called mantissa.) The characteristic being thus determined by the number of digits of the number, it is in this system, only necessary to know this decimal fraction, in order to operate with these logarithms upon any quantity whatever.

§ 3. Thence the use of logarithms, is exactly the same as that of the exponents in algebra; or we have

$$\log n \quad \log n \quad \log m \quad \log m + \log n$$

$$10 = N; \text{ and } 10 \times 10 = 10$$

the arithmetical operations to be performed by logarithms, are thus represented:

① 4-7-42 msc

For multiplication : $\log N + \log M = \log (N \cdot M)$

For division : $\log N - \log M = \log \frac{N}{M}$

For raising to powers $\left\{ \begin{array}{l} \text{whole : } \log N^p = p \log N \\ \text{fractional : } \log N^{\frac{p}{q}} = \frac{p}{q} \log N \end{array} \right.$

The import of these simple algebraic formulæ, is what is executed in the calculations by logarithms, and tables are calculated to an extent sufficient for every practical use, presenting the logarithms of the numbers for the powers of 10; and when inversely used, they again of course present the number to any result obtained in an operation performed by their means. Seven places of figures for the mantissa are generally sufficient, for even great practical accuracy.

§ 4. The arrangement of the logarithmic tables here given, is as follows: The first column of each page contains the natural number; the second column the logarithm corresponding to this number, and any of its products by *ten*; for any number of nuls that might follow it, would only increase the characteristic, by the principle stated § 2, and this characteristic is omitted, because it is determined by that principle.

The following columns headed 1, 2, 3, &c. to 9, each present four figures, which, written after the first three of the second column, extend the tables one place farther, indicated by this heading; these three first figures are therefore general and constant numbers, to be prefixed to the four others in either one of the 10 columns, until supplied by another constant number, which is indicated by the blank space left at the beginning of each alteration.

Thus the log. of 36520, being in the second column, headed 0, the log. of 36527 is composed of the three first figures standing separate in the column headed 0, and the four that stand in the same line in the column headed 7. Besides these columns, there are given small tables, headed by the difference between two successive logarithms, which contain the subdivision of this difference corresponding to the number indicated in their first columns, for one figure lower in the decimal system of numeration. These differences, therefore, extend the tables one digit farther, in the same manner as the columns after 0, have done for the preceding higher order; they may be extended one figure more, when needed, by removing the proportional part, which they give, one figure more to the right, but in this case it must be observed: that the nearest corresponding higher or lower figure of the 7th place is taken instead of the 8th, resulting, because the number of figures in the logarithms is never increased. Thus, if in the above example, the numbers were extended to 3652794, the proportional part for the 9 would be taken in the corresponding small table, and added to the log. of the preceding part, and the proportional part for the 4, being taken in the same table, the nearest number in the seventh place, would be taken instead of the 8th figure, and this added to the last result. The characteristic will be determined by the principle of § 2: thus if the numbers were all whole numbers, it would in the last case here be 6, if it were

36527,94 it would be 4; if 36,52794, it would be 1, &c.

§ 5. If the number is a decimal fraction without whole numbers, the best method is to consider it as a whole number, and instead of the characteristic of 10 being = 1, to suppose it = 10; this will give both the characteristic and the fractional part of the log. positive, and can lead to no mistake, as an error in this would increase the number of figures for eleven

places, within which the probable result is always ascertainable in some other manner; such log. may always be distinguished by using a full stop (.) after the characteristic, instead of a comma (,) as after the log. implying whole numbers; this characteristic will indicate the first significant figure by counting from 10, downwards, so that 9 will correspond to 0,1; 8 to 0,01, and so on for all the rest; so that as much as the characteristic is less than 10, so many is the number of 0's preceding the significant figures, the 0 of the unity being included. In the result as many tens of the characteristic will be rejected (if possible,) as tens have been introduced by the data of the calculation, which will be indicated by the number of (.) after the characteristic; and if the characteristic is not sufficient, for all rejection, its keeping a (.) will denote that it belongs to a decimal fraction.

§ 6. To find the logarithm to a number, by the tables,

1st Example. To find the log. of 43560, having the same number of figures as the tables.

This is found directly in the column headed 0, opposite to 4356 in the first column, and there being 5 whole numbers, its characteristic will be 4; thus we obtain $\log. 43560 = 4,6390879$.

If it had been 435,6 the characteristic would have been 2, and the fractional part of the log. the same as above.

2d Example. To find the log. of 921796,4 exceeding the tables by two places of figures; as it has 6 whole figures, the characteristic will be = 5.

Opposite to 9217 in the first column, and in the column headed 9 will be found, by joining the characteristic and the three first general numbers of the column headed 0.

	$\log. 92179$	$=$	5,9646320
for the subsequent number 6, the corresponding			
small table headed 47, gives		$=$	28
and for the following number 4, it gives, by removing the result one figure to the right		$=$	19

The whole log. using 20 instead of 19 in the last part, as nearest in the 7th place, is $= 5,9646350$

3d Example. To find the log. of 319, having less figures than the tables. The addition of 0's, changing only the characteristic, this log. is the same as opposite 3190 in the column headed 0, and the characteristic is = 2. therefore

$\log. 319 = 2,5037907$.

4th Example. To find the log. of 0,003759 a decimal fraction; there being three nulls, the characteristic arising from the augmentation of 10, will be 7, after which must be placed a (.) and the logarithm of 3759 be taken, which makes

$\log. 0,003759 = 7,5750723$.

§ 7. To find the number to a given logarithm. This is the inverse of the preceding process, the tables are therefore used inversely, thus: the given logarithm is compared with the nearest below it in the tables, the difference between the two being taken, the small tables on the side, used also in the inverse order of the preceding operation, will give the proportional parts of the number, to be added to the number in the columns of the tables, corresponding to the nearest lower log. first taken.

1st Example. To find the number corresponding to the logarithm 3,7144136. This is found exactly in the second column of the tables, headed 0, opposite to the number 5181. The characteristic 3, indicates four places of figures for the whole number, thence is obtained

$3,7144136 = \log 5181,0$

1*

2d Example. To find the number corresponding to the log. 2,1716387. This is again found exactly in the line of the number 1484 and the column headed 7, by uniting the 3 first figures of the column headed 0, with the 4 in that headed 7. Thence in adding the 7 to the number of the first column gives 2,1716387 = log. 148,47 with three whole figures, because of the characteristic = 2.

3d Ex. To find the number corresponding to the log. 5,3109537
The log. of the tables nearest below it is = 3,109481
corresponding to the number 20462 in the first column, by the union of the three leading figures of the column headed 0, with the four in that headed 2; taking the difference between the two log. = 56
and comparing it with the second column of the small table headed 212 (the corresponding difference) it gives for the first proportional part, from 42 the proportional number 2; the 42 deducted from the difference above is = 56 - 42 = 14; this increased by an 0, to extend the difference one figure farther, gives, in the same table, for 140 the nearest proportional number 7, it being only 8 more in the table, and therefore nearest, whence these two numbers added after the above, and the comma, which denotes the whole numbers, placed according to the known principles, for the characteristic, we obtain :

$$5,3109537 = \log. 204622,7.$$

4th Ex. To find the number corresponding to the log. 6,3194267
where the (.) after the characteristic shows that it is a decimal fraction, therefore 10 too large; the 6 in the characteristic shows the first significant figure to be in the 4th place of decimals, and the nearest log. in the tables is 3194184, giving, by prefixing the number of 0's corresponding to the characteristic, = 0,00020865
the difference between the two logarithms is 83
which in the small table headed 208, corresponds exactly to 4
for the next following decimal; whence results :
6,3194267 = log. 0,000208654.

§ 8. The following examples will show the form in which the arithmetical operations, indicated in § 3, are executed; the log. being found by the direction of the two preceding sections.

A°. For multiplication or $\log. m + \log. n = \log. (m. n)$

$$\begin{aligned} \text{1st Example, given } n &= 839,3; m = 1485,9 \\ \log n &= \log. 839,3 = 2,9239172 \\ \log m &= \log. 1485,9 = 3,1719696 \end{aligned}$$

$$\log (m. n) = \log. 1247116, = 6,0959068 = \text{sum.}$$

The difference with the nearest log.
of the tables (.0959013) or 55
corresponds in the small table headed 348 first to 1, for 35, and this deducted from 55, and the result augmented by a 0, giving 200, the nearest to which is 209, corresponding to 6, gives, in joining these numbers to the above, the characteristic taken into consideration, the final result :
(839,3) \times (1485,9) = 1247116,

2°. Ex. If one of the factors be a decimal fraction the log. of which is taken with a characteristic 10 too large; as, suppose to be required the result of (1731,4) \times (0,0329)

$$\begin{aligned} \log. 1731,4 &= 3,2383974 \\ \log. 0,0329 &= 8,5171959 \end{aligned}$$

log. 56,96305 = 1,7555933 = Sum,
difference from nearest log. 4

the difference furnishing the two last figures from the small corresponding table headed 77.

If the first number had been only 17,314 the characteristic of its log. being only 1, that of the result would have been 9, indicating the decimal fraction = 0,5696305 for the ultimate result.

B°. To make a division the formula to execute is $\log. m - \log. n$
 thus: given $m = 131,496$; $n = 72,931$; or to execute $\frac{131,496}{72,931}$

$$\begin{array}{rcl} \text{gives } \log. 131,496 & = & 2,1189125 \\ \log. 72,931 & = & 1,8629122 \end{array}$$

$$\log. 1,80302 = 0,2560003 = \text{difference.}$$

difference from tabular lower log. = 48
 the nearest corresponding number of the small table headed 241 is = 2, which gives the last number of the above result. If the divisor had been greater than the dividend, the subtraction being made as above, with the supposition of the characteristic of the dividend increased by 10, the characteristic of the result would have been ten too large, and being used as shown before, the resulting quotient would be the corresponding decimal fraction.

§9. In larger calculations the subtraction of logarithms is inconvenient, therefore instead of subtracting the log. of the divisor, as above its arithmetic complement to ten in the characteristic is taken, and again distinguished by a (.) after the characteristic and then added; this can easily be read out of the table itself, with a little habit in calculation; to obtain this, all the numbers of the logarithm, the characteristic included, are subtracted from 9, except the 7th, which is subtracted from 10. Thus treated the above example would stand

$$\begin{array}{rcl} \log. 131,496 & = & 2,1189125 \\ \text{ar. co. log. } 72,931 & = & 8,1370878 \end{array}$$

$$\log. 1,80302 = 0,2560003 = \text{Sum.}$$

By this method the result of a number of multiplications and divisions, mixed in a compound factor, are obtained by the simple addition of the corresponding logarithms of the multipliers and the ar. compl. of the divisors.

§10. To execute the raising into power of a number by its log. that is to execute $\log. N^p = p. \log. N$ of §3.

$$\begin{array}{l} \text{1st Example; } \log (3,1415927)^3 \text{ we find the} \\ \log. 3,1415927 = 0,4971499 \\ \text{multiplying by 3} \end{array}$$

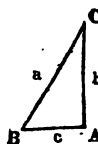
$$\text{gives } \log. 31,00631 = 1,4914497$$

$$\begin{array}{l} \text{2d Example; to execute } (2713,79)^{\frac{1}{4}} \\ \log. 2713,79 = 3,4335762 \end{array}$$

$$\begin{array}{l} \text{the log. divided by 4 gives; } \log. 7,21762 = 0,8583940 \\ \text{giving the last figure} = 2, \qquad \qquad \qquad 12 = \text{difference.} \end{array}$$

UPON THE TRIGONOMETRIC TABLES.

§11. In a right angled triangle the geometric ratio of either two of the sides is determined by either of the two acute angles of the triangle, and this is called a *trigonometric function* of that angle; peculiar denominations have been given to them, thus:



In the triangle A. B. C. right angled in A, the sides being denoted by the small letters corresponding to the opposite angles, these ratios and their denominations are

$$1^\circ = \frac{b}{a} = \text{sine } B$$

$$4^\circ = \frac{a}{b} = \text{cosecant } B$$

$$2^\circ = \frac{c}{a} = \text{cosine } B$$

$$5^\circ = \frac{a}{c} = \text{secant } B$$

$$3^\circ = \frac{b}{c} = \text{tangent } B$$

$$6^\circ = \frac{c}{b} = \text{cotangent } B$$

Of these ratios the three last are the inverse of the three first, these three therefore suffice for all trigonometric calculations.

These ratios, expressed in decimal fractions, are the numbers that are given in the trigonometric tables. On account of the great advantage of logarithms in all calculations, their logarithms have been calculated, under the form above stated for decimal fractions, as supposing the characteristic increased by ten.

The two acute angles of a right angled triangle being complement the one of the other to one right angle, the above ratios formed upon B, apply to C. by changing the *sine* into *cosine*; *tangent* into *cotangent*; *secant* into *cosecant*; and inversely; the lines presenting, by this change, the same position towards the angle, C, as before the inversion towards B.

From one half right angle (45°) to the whole right angle (90°) the values of every one of these trigonometric functions recur again in an inverse order, and with the change just stated, as appropriated to the complementary angle, therefore the tables need be calculated only to 45° to serve for the whole circle. For an angle between 90° and 180° the same change takes place for its excess above 90° .

According to the effect of the arithmetical complements in logarithms, the arithmetic complements of the logarithms of the *sine*, *cosine*, and *tangent* give the logarithms of the *cosecant*, *secant* and *cotangent* respectively; the secants and cosecants are now always dispensed with, the cotangents have been retained, rather from habit, than from any necessity.

§12. In the following tables the log. sines and the log. tangents of the first degree are given for every single second, if more minuteness is required, the proportional parts for the decimals, must be determined by the differences, and even second differences of the given log.

The cosines of the first degree, varying but little, are given to every $30''$ in a separate page, together with the cotangents; but when particular accuracy is desired the complement of the tangent of the complementary angle must be taken. Of the second and third degree the four trigonometric functions are given to every ten seconds; and the differences between each in the adjoining column; the proportional parts for single seconds, and decimals, are obtained by the product of this difference with these seconds, and parts, rejecting one figure to the right, besides what may be due to the decimals of seconds.

From the beginning of 3° up to 45° the log. of the trigonometric functions are given to every $30''$ and the differences for $10''$, which latter affords the same facility for the proportional parts as in the preceding part; these will most generally suffice to give directly the accuracy to an unity in the 7th place of the logarithm, but up to 7° the following method of determining the proportional parts is to be used, for the log. *sines*, *tangents*, and *cotangents*; namely until $15''$ difference, inclusive, the *corresponding immediate difference* is used, to be added with the increasing, or subtracted with the decreasing function; from $15''$ upwards to $30''$, or the next whole minute, the logarithm of this latter must be used, and the *arithmetical mean* between the *corresponding difference* and that next following must be taken to form the proportional parts, that are now to be applied inversely.

§13. To introduce into the practical use of these tables the following examples may suffice.

1st Example; To find the log. sine and the log. tangent of $1^{\circ} 21' 14''$ the tables give for

$1^{\circ} 21' 10''$ L. sine	8.3730635	diff.	8907	l. tang. 8.3731845	diff.	8912
proportional parts for $4''$	$+ 3563$			$+ 3565$		
for $1^{\circ} 21' 14''$ L. sine	$= 8.3734198$			l. tang. 8.3735410		

2d Ex. To find the log. sine and log. tang. of $4^{\circ} 25' 13''$ the tables give for $4^{\circ} 25' 0''$ L. sine	8.8865418	diff.	2725	l. tang. 8.8877334	diff.	2741
prop. parts for $13''$	$+ 3542$			$+ 3563$		
for $4^{\circ} 25' 13''$	$= 8.8868960$			8.8881897		

3d Ex. To find log. sine and log. tang. of $4^{\circ} 39' 19''$						
tables for $4^{\circ} 39' 30''$ L. sine	$= 8.9096294$	mean diff.	2585	l. tang. 8.9110663	mean diff.	2603
prop. parts for $11''$	$- 2844$			$- 2863$		
for $4^{\circ} 39' 19''$ sine	$= 8.9093450$			tang. $= 8.9107800$		

any other example for cosine, or other, will be the same, with the proper attention to the increase or decrease of the function; it is always proper to take the nearest tabular log. adding, or subtracting, as the case requires.

§14. The following examples will show the inverse operation of determining the angle from one of its trigonometric functions.

1st Ex. To find the angle the log. tang. of which is $= 8.9410974$ in the column of tangents the nearest value is $= 8.9412237$

corresponding to $4^{\circ} 59' 30''$; difference $= - 1263$
 the mean tabular dif. $\{ 2432 \}$ $\{ 2428 \} = 2430$ forms a divisor to the difference
 ference between $\{ 2432 \}$ $\{ 2428 \}$ 12630

found, increased by the addition of a 0, thus is obtained 2430

which executed gives the corresponding seconds $= - 5'', 2$
 thence the result $4^{\circ} 59' 30'' - 5'', 2 = 4^{\circ} 59' 24'', 8$

2d Ex. To find the angle the log. sine of which is $= 8.9568559$
 the nearest log. sine in the tables is $= 8.9565897$

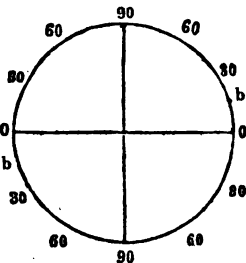
corresponding to $5^{\circ} 11' 30''$; difference $= + 2662$
 this difference multiplied by ten, and divided by the tabular difference,
 $\frac{26620}{2317} = 11,49$ which added to the above, and taking the nearest
 gives 2317 tenth, gives the ultimate result $5^{\circ} 11' 41'', 5$.

UPON THE TABLES OF NATURAL SINES.

§15. The use of the trigonometric functions in natural numbers is altogether superseded by those in logarithms, on account of the much greater advantage of the latter. However natural sines may be used with advantage in plotting surveys, and wherever angles are to be constructed; with a view to this application they are introduced in this volume to every $30''$; when the differences are not written immediately after the sines the preceding difference is considered as applicable.

The sine of an angle is half the chord of twice that same angle, or arc. Upon this principle I ground the following method of protracting the angles of a survey independantly from one another, and with an accuracy unattainable by any other mechanical means.

§16. Draw a fine straight line through the middle of the paper, in any convenient direction; if the survey is made with the compass, it will be best to accept the magnetic meridian; in others, one of the principal lines of the survey will be taken; to this also an exact perpendicular may be drawn. Either in the middle of this line, or in the intersection of the perpendiculars, draw a circle with a radius equal to 500 parts of a scale of 1000 parts; in this circle the intersection of the above line with the circumference will determine diametrically opposite points, as; 0. 0. from which, as also from 90°. if the 90° points have been determined, are laid off on both sides, with the same opening of the divider; the points determining the 60°. and in the second case also the 30° on each side of. 0. 0., will be marked; forming the elements of an accurate protractor for the whole map.



To lay off any angle by means of this protractor, as for instance $14^{\circ} 29'$, the half of it being $7^{\circ} 14' 30''$, find in the tables the natural sine of this half angle, and find its tabular value = 0.1260047 which, in the adopted scale of thousand parts, will give 126,005 taking this distance in the dividers, the intersection of it with the circumference of the circle, from the line 0. 0. and on both opposite sides of the same, will determine the proper points b, b; the line drawn between them passes through the centre of the circle; to this a line will be drawn parallel, by means of rule and triangle, at any point of the map that will make the angle $14^{\circ} 29'$ with the direction 0. 0. If the angle is above 30°, either its complement to 60° is taken, and the distance is laid off backwards from the point of 60°, or 30° is subtracted, if this point be marked, and the operation performed as above, with the remainder; in like manner an angle between 60° and 90° or in fact any larger one may be made; the angle intended to be used is always brought *within* half the distance between two divisions, that it may come within the easy reach of a common divider, and the points may be made with nearer perpendicular legs, for greater accuracy; the laying off of two diametrically opposite points affords a proof of the accuracy of their placing, and secures more accuracy. If found necessary or convenient, on large papers, several such circles may be drawn in the prolongation of the lines 0, 0, or its perpendicular. With a little practice, easily acquired, this method will be found much quicker than laying off with a protractor, or scale, with which no angle can be laid off with satisfactory accuracy; particularly when the angles are laid off dependant upon one another successively.

USEFUL NUMBERS AND FORMULÆ.

Circumference of the Circle in Diameters	= 3,141592653589793238463	log. = 0,4971499
Circumference in seconds	= 1296000	log. = 6,1102660
Are equal to Radius	= 57°. 17'. 44". 8 = 206264". 8	log. = 5,3144251
1° in parts of Radius	= 0,017453292519943295769236908	log. = 8,2487774
Modulus of common log.	= 0,3025850929940456840179914547	log. = 0,4342944819032838176
Log. nat. N = 2,3025850930	x log. vulg. N.	
Base of natural Logarithms	= 2,718281828459045235360287471352662498	
Metre in English inches	= 39,37009596	log. = 1,592869
French toise	= 76,74334472	log. = 1,8850408
Metre in parts of French toise	= 0,5131704	log. = 9,7102613
French Kilogramme in English Imperial lbs. Troy.	= 2,20462262	log. = 0,3428256
litre	= 1,05668821	log. = 0,0238522
British Imperial gallon	= 277,274 cub. inch	log. = 2,4429092
Bar 30" Ther. 60° F. 1 cubic inch distilled water	= 252,458 gr. Troy	log. = 2,4021822
Specific gravity.	Expansion from freezing, to boiling of Water.	
Platinum	19,500—22,669	0,0008842
Iron	7,207—7,788	0,001253363
Brass	8,336	0,0018316254
Mercury	13,558	0,018018
Gold	19,258—19,361	0,001466
Silver	10,474	0,001909
Water	1,0	0,0466
Greatest density of Water is between 38° and 40° Fahr.		
expansibility of air at 57°, 87° Fahr.		
Velocity of sound in 1 second time	= 1142 feet English.	log. = 3,0576661
Fall of heavy bodies in 1" = 16,082		
Diameter of earth in English feet (mean)	= 41836420.	log. = 7,6215846
by measures	by Pendulum	by (C. s. theory.
Ellipticity of earth, = 0,003415; = 0,0034483; = 0,0030787;		
Length of Pendulum at { Paris, = 39,12843 Borda 39,12820 Sabine.		
{ London, = 39,13008		
{ New-York, = 39,10120		
New-York, (City Hall) latitude = 40°. 42'. 37", 4 longitude = 74°. 03'. 05". 2.		
Difference of longitude between Paris and Greenwich = 2°. 30'. 17". 73 = 0°. 7'. 21". 78.		
Seconds of time in 24 hours = 86400"		log. = 4,93355137
24 hours mean solar time = 1. 00. 03. 56,5554 Sidereal time.		
sidereal time = 23. 56. 04,0907 mean solar time.		
Mean Acceleration of fixed stars = 0. 3. 56,0903		
Sidereal year = 365. 6. 9. 10,7406		
Tropical year = 365. 5. 48. 47,8192		
Sidereal revolution of the Moon = 29. 5305886.		
Synodic Month = 29. 5315830.		
Distance of the Earth from the Sun in Earth Diameters. = 12196,8 log. = 4,0860459		
Moons. { greatest = 32,744 log. = 1,5151317		
{ smallest = 27,938 log. = 1,4455621		
Mean horizontal Parallax of ☉ = 87". 6		
{ greatest = 61'. 26" }		
{ smallest = 53. 46 }		
Diameter of the Sun, in Earth's Diameters = 111.74.		
Moons. = 0,27993.		
Mass of the Sun, the Earth being Unity, = 329330,0.		
Moons. = 0,0146.		
Aberr. of * in AR = 20". 253 (cos. ω cos. AR * cos. long. ☉) + sin. AR * sin. long. ☉ : cos. δ		
Decl. = - 20". 253 cos. long. ☉ (sin. ω cos. δ - sin. δ sin. AR * cos. ω)		
+ 20". 253 sin. δ cos. AR * sin. long. ☉		
Nutat. of * in AR = sin. ☉ (16". 5441 + 7". 1822 tang. δ sin. AR *)		
= 9". 643 tang. δ cos. AR * sin. ☉		
Decl. = 9". 84 sin AR * cos. ☉ - 7". 1822 cos. AR * sin. ☉		
REDUCTION OF CIRCUM-MERIDIAN ALTITUDES.		
$x = \frac{2 \sin. \frac{1}{2} P. \cos. D. \cos. L.}{\sin. 1" \sin. (L \pm D.)} \left(1 \pm \frac{\sin^2 \frac{1}{2} P. \cos. L. \cos. D. \cot. (L \pm D.)}{\sin. (L \pm D.)} \right)$		
CORRECTION OF NOON BY CORRESPONDING ALTITUDES.		
$G = \Delta. (- \tan g. L + \tan g. D.) : t. 360". \sin. (15". t)$		
ELEMENTS OF SUN'S APPARENT ORBIT; for 1800 + t		
General annual precession of Equinox = 50". 22350 + (0,0002443610) t		
Inclination of Ecciptic to true Equator = 23°. 27'. 54". 8 - (0". 457) t + (8". 77707) cos. δ		
= (0". 08773) cos. 2 ☉ + (0". 57990) cos. 2 ☉ + (0". 08738) cos. 2 ☉		
Excentricity of Earth's orbit = 0,0167922585 - (0,0000004369) t		
Longitude Perigee = 279°. 30'. 08". 35 + (61". 6171) t + (0". 0002037965) t²		
Mean Longitude of sun = 279°. 54'. 01". 36 + (27". 605844) t + (0". 0001221805) t²		

FORMULÆ OF PLANE TRIGONOMETRY.

Data.	Sought.	Final Formulas.	Auxiliaries.
b, c, B	C	$\sin C = \frac{c \sin B}{b}$	
b, B, C	c	$c = \frac{b \sin C}{\sin B}$	$B = 90^\circ - \frac{1}{2} A + \frac{1}{2} (B + C)$
b, c, A	$B - C$	$\tan \frac{1}{2} (B - C) = \cot \frac{1}{2} A \frac{b - c}{b + c}$	$C = 90^\circ - \frac{1}{2} A - \frac{1}{2} (B - C)$
a, B, c	b	$b = \frac{a \cos C}{\cos s}$ $b = (a + c) \sin s$	$\tan s = \frac{\sin \frac{1}{2} B}{\sin \frac{1}{2} C} (a c)^{\frac{1}{2}}$ $\cos s = \frac{\sin \frac{1}{2} B}{\sin \frac{1}{2} C} (a c)^{\frac{1}{2}}$
a, b, c	B	$\tan \frac{1}{2} B = \left(\frac{(p - a)(p - c)}{p(p - b)} \right)^{\frac{1}{2}}$	$p = \frac{a + b + c}{2}$

FORMULÆ OF SPHERIC TRIGONOMETRY.

a, B, b	C	$\sin C = \frac{\sin b}{\sin B \sin a}$	
B, a, C	b	$\sin b = \frac{\sin C \sin a}{\sin B}$	
a, b, c	A	$\tan \frac{1}{2} A = \left(\frac{\sin(p - c) \sin(p - b)}{\sin p \sin(p - a)} \right)^{\frac{1}{2}}$	$p = \frac{a + b + c}{2}$
A, B, C	a	$\tan \frac{1}{2} a = \left(\frac{\cos P \cos(P - A)}{\cos(P - C) \cos(P - B)} \right)^{\frac{1}{2}}$	$P = \frac{A + B + C}{2}$
A, a, b	c	$\sin \frac{1}{2} c = \frac{\sin \frac{1}{2} (a \cos b)}{\cos Z}$	$\tan Z = \frac{\sin \frac{1}{2} A}{\sin \frac{1}{2} (c \cos b)} \left(\sin b \sin c \right)^{\frac{1}{2}}$
B, a, C	A	$\sin \frac{1}{2} A = \frac{\cos \frac{1}{2} (B + C)}{\cos Z}$	$\tan Z = \frac{\sin \frac{1}{2} a}{\cos \frac{1}{2} (B + C)} \left(\sin B \sin C \right)^{\frac{1}{2}}$
C, a, b	$A, B,$	$\tan \frac{1}{2} (A + B) = \cot \frac{1}{2} C \frac{\cos \frac{1}{2} (a \cos b)}{\cos \frac{1}{2} (a + b)}$ $\tan \frac{1}{2} (A \cos B) = \cot \frac{1}{2} C \frac{\sin \frac{1}{2} (a \cos b)}{\sin \frac{1}{2} (a + b)}$	
A, a, B	$a, b,$	$\tan \frac{1}{2} (a + b) = \tan \frac{1}{2} c \frac{\cos \frac{1}{2} (B \cos A)}{\cos \frac{1}{2} (B + A)}$ $\tan \frac{1}{2} (a \cos b) = \tan \frac{1}{2} c \frac{\sin \frac{1}{2} (A \cos B)}{\sin \frac{1}{2} (A + B)}$	
a, A, b	c	$c = s \frac{1}{\cos y}$ $\tan x = \cos A \tan b$ $\tan y = \tan a \cos B$ $C = s \frac{1}{\cos y}$	$\sin B = \frac{\sin A \sin b}{\sin a}$
A, a, B	C	$\cot a = \cos a \tan B$ $\cot y = \tan A \cos b$ $c = s \frac{1}{\cos y}$	$\sin b = \frac{\sin a \sin B}{\sin A}$
B, a, C	c	$\tan x = \tan a \cos B$ $\tan y = \tan b \cos A$ $C = s \frac{1}{\cos y}$	$\sin b = \frac{\sin A \sin a}{\sin A}$
b, a, A	C	$\cot x = \cos a \tan B$ $\cot y = \cos b \tan A$	$\sin B = \frac{\sin A \sin b}{\sin a}$

N.	0	1	2	3	4	5	6	7	8	9	diff. et p.	
1000	000	0000	0434	0869	1303	1737	2171	2605	3039	3473	3907	434
01		4341	4775	5209	5642	6076	6510	6943	7377	7810	8244	1 43
02	001	8677	9111	9544	9977	0411	0844	1277	1710	2143	2576	2 87 433
03		3009	3442	3875	4308	4741	5174	5607	6039	6472	6905	3 130
04	002	7337	7770	8202	8635	9067	9499	9932	0364	0796	1228	4 174 432
1005		1661	2093	2525	2957	3389	3821	4253	4685	5116	5548	5 250 1 43
05		5980	6411	6843	7275	7706	8138	8569	9001	9432	9863	6 250 2 86
06	003	0925	0725	1157	1588	2019	2451	2882	3313	3744	4174	7 304 2 130
07		4605	5036	5467	5898	6328	6759	7190	7620	8051	8481	8 347 3 130
08	004	8912	9342	9772	0203	0633	1063	1493	1924	2354	2784	9 391 4 173
09		3214	3644	4074	4504	4933	5363	5793	6223	6652	7082	10 429 5 216
1010		7512	7941	8371	8800	9229	9659	0088	0517	0947	1376	11 469 6 259
11	005	1805	2234	2663	3092	3521	3950	4379	4808	5237	5666	12 517 7 302
12		6094	6523	6952	7380	7809	8238	8666	9094	9523	9951	13 565 8 346
13	006	0380	0808	1236	1664	2092	2521	2949	3377	3805	4233	14 613 9 389
1015		4660	5088	5516	5944	6372	6799	7227	7655	8082	8510	15 661 10 427
16	007	8737	9165	9592	0020	0447	0874	1301	1728	2155	2582	16 709 11 465
17		3210	3637	4064	4490	4917	5344	5771	6198	6624	7051	17 757 12 503
18	008	7478	7904	8331	8757	9184	9610	0037	0463	0889	1316	18 805 13 541
19		1742	2168	2594	3020	3446	3872	4298	4724	5150	5576	19 853 14 579
1020		6002	6427	6853	7279	7704	8130	8556	8981	9407	9832	20 901 15 617
01	009	0267	0693	1118	1543	1968	2393	2818	3243	3668	4093	21 949 16 655
22		4509	4934	5359	5784	6208	6633	7058	7483	7907	8332	22 997 17 693
23	010	8786	9211	9635	0060	0484	0908	1333	1757	2181	2605	23 1045 18 731
24		3000	3424	3848	4272	4696	5120	5544	5967	6391	6815	24 1093 19 769
1025	011	7239	7662	8086	8510	8933	9357	9780	0204	0627	1050	25 1141 20 807
26		1474	1897	2320	2743	3166	3589	4013	4436	4859	5282	26 1189 21 845
27	012	8931	9354	9776	1018	1441	1864	2287	2710	3133	3556	27 1237 22 883
28		4154	4576	4998	5420	5842	6264	6686	7108	7530	7952	28 1285 23 921
1030	013	8372	8794	9215	9637	0059	0480	0901	1323	1744	2165	29 1333 24 959
31		2587	3008	3429	3850	4271	4692	5113	5534	5955	6376	30 1381 25 997
32	014	6797	7218	7639	8059	8480	8901	9321	9742	0162	0583	31 1429 26 1035
33		1003	1424	1844	2264	2685	3105	3525	3945	4365	4785	32 1477 27 1073
1035	015	5403	5823	6243	6663	7083	7503	7923	8343	8763	9183	33 1525 28 1111
36		9403	9823	0243	0662	1082	1501	1920	2340	2759	3178	34 1573 29 1149
37	016	3558	4017	4474	4885	5294	5693	6112	6531	6950	7369	35 1621 30 1187
38		7788	8206	8625	9044	9463	9881	0300	0718	1137	1555	36 1669 31 1225
39	017	1974	2392	2810	3229	3647	4065	4483	4901	5319	5737	37 1717 32 1263
40		6135	6552	6969	7386	7803	8220	8637	9054	9471	9888	38 1765 33 1301
41	018	0333	0750	1167	1584	2000	2417	2834	3250	3667	4083	39 1813 34 1339
42		4507	4924	5340	5757	6173	6589	7005	7421	7837	8253	40 1861 35 1377
43	019	8677	9092	9507	9922	0337	0752	1167	1582	2000	2415	41 1909 36 1415
44		2843	3257	3671	4085	4500	4914	5328	5742	6156	6570	42 1957 37 1453
45	020	7005	7419	7832	8245	8658	9071	9484	9897	0310	0723	43 2005 38 1491
1040		1163	1575	1987	2400	2812	3224	3636	4048	4460	4872	44 2053 39 1529
46	021	5317	5729	6141	6552	6963	7374	7785	8196	8607	9018	45 2101 40 1567
47		9467	9878	0289	0699	1109	1519	1929	2339	2749	3159	46 2149 41 1605
1045	022	3613	4022	4431	4840	5249	5658	6067	6476	6885	7294	47 2197 42 1643
48		7755	8163	8571	8979	9387	9794	0202	0610	1018	1426	48 2245 43 1681
49	023	1823	2230	2637	3044	3451	3858	4265	4672	5079	5486	49 2293 44 1719
1050		5950	6359	6767	7175	7583	7990	8397	8804	9211	9618	50 2341 45 1757
51	024	0750	1151	1552	1953	2354	2755	3156	3557	3958	4359	51 2389 46 1795
52		4857	5257	5657	6057	6457	6857	7257	7657	8057	8457	52 2437 47 1833
53	025	8950	9349	9748	0147	0546	0945	1344	1743	2142	2541	53 2485 48 1871
54		3050	3448	3846	4244	4642	5040	5438	5836	6234	6632	54 2533 49 1909
1055	026	7150	7547	7944	8341	8738	9135	9532	9929	0326	0723	55 2581 50 1947
56		1250	1646	2042	2438	2834	3230	3626	4022	4418	4814	56 2629 51 1985
57	027	6350	6740	7130	7520	7910	8300	8690	9080	9470	9860	57 2677 52 2023
58		0450	0840	1230	1620	2010	2400	2790	3180	3570	3960	58 2725 53 2061
1060	028	4550	4940	5330	5720	6110	6500	6890	7280	7670	8060	59 2773 54 2099
59		8650	9040	9430	9820	0210	0600	0990	1380	1770	2160	60 2821 55 2137
60	029	2750	3140	3530	3920	4310	4700	5090	5480	5870	6260	61 2869 56 2175
61		6850	7240	7630	8020	8410	8800	9190	9580	9970	0360	62 2917 57 2213
62	030	9950	0340	0730	1120	1510	1900	2290	2680	3070	3460	63 2965 58 2251
63		4050	4440	4830	5220	5610	6000	6390	6780	7170	7560	64 3013 59 2289
1065	031	8150	8540	8930	9320	9710	0100	0490	0880	1270	1660	65 3061 60 2327
64		2250	2640	3030	3420	3810	4200	4590	4980	5370	5760	66 3109 61 2365
65	032	6350	6740	7130	7520	7910	8300	8690	9080	9470	9860	67 3157 62 2403
66		0450	0840	1230	1620	2010	2400	2790	3180	3570	3960	68 3205 63 2441
1070	033	4550	4940	5330	5720	6110	6500	6890	7280	7670	8060	69 3253 64 2479
67		8650	9040	9430	9820	0210	0600	0990	1380	1770	2160	70 3301 65 2517
68	034	2750	3140	3530	3920	4310	4700	5090	5480	5870	6260	71 3349 66 2555
69		6850	7240	7630	8020	8410	8800	9190	9580	9970	0360	72 3397 67 2593

N.	0	1	2	3	4	5	6	7	8	9	Sum
25	255	3468	3871	4888	4677	5887	5888	5888	6335	6784	
26	256	3469	3872	4889	4678	5888	5889	5889	6336	6785	
27	257	3470	3873	4890	4679	5889	5890	5890	6337	6786	
28	258	3471	3874	4891	4680	5890	5891	5891	6338	6787	
29	259	3472	3875	4892	4681	5891	5892	5892	6339	6788	
30	260	3473	3876	4893	4682	5892	5893	5893	6340	6789	
31	261	3474	3877	4894	4683	5893	5894	5894	6341	6790	
32	262	3475	3878	4895	4684	5894	5895	5895	6342	6791	
33	263	3476	3879	4896	4685	5895	5896	5896	6343	6792	
34	264	3477	3880	4897	4686	5896	5897	5897	6344	6793	
35	265	3478	3881	4898	4687	5897	5898	5898	6345	6794	
36	266	3479	3882	4899	4688	5898	5899	5899	6346	6795	
37	267	3480	3883	4900	4689	5899	5900	5900	6347	6796	
38	268	3481	3884	4901	4690	5900	5901	5901	6348	6797	
39	269	3482	3885	4902	4691	5901	5902	5902	6349	6798	
40	270	3483	3886	4903	4692	5902	5903	5903	6350	6799	
41	271	3484	3887	4904	4693	5903	5904	5904	6351	6800	
42	272	3485	3888	4905	4694	5904	5905	5905	6352	6801	
43	273	3486	3889	4906	4695	5905	5906	5906	6353	6802	
44	274	3487	3890	4907	4696	5906	5907	5907	6354	6803	
45	275	3488	3891	4908	4697	5907	5908	5908	6355	6804	
46	276	3489	3892	4909	4698	5908	5909	5909	6356	6805	
47	277	3490	3893	4910	4699	5909	5910	5910	6357	6806	
48	278	3491	3894	4911	4700	5910	5911	5911	6358	6807	
49	279	3492	3895	4912	4701	5911	5912	5912	6359	6808	
50	280	3493	3896	4913	4702	5912	5913	5913	6360	6809	
51	281	3494	3897	4914	4703	5913	5914	5914	6361	6810	
52	282	3495	3898	4915	4704	5914	5915	5915	6362	6811	
53	283	3496	3899	4916	4705	5915	5916	5916	6363	6812	
54	284	3497	3900	4917	4706	5916	5917	5917	6364	6813	
55	285	3498	3901	4918	4707	5917	5918	5918	6365	6814	
56	286	3499	3902	4919	4708	5918	5919	5919	6366	6815	
57	287	3500	3903	4920	4709	5919	5920	5920	6367	6816	
58	288	3501	3904	4921	4710	5920	5921	5921	6368	6817	
59	289	3502	3905	4922	4711	5921	5922	5922	6369	6818	
60	290	3503	3906	4923	4712	5922	5923	5923	6370	6819	
61	291	3504	3907	4924	4713	5923	5924	5924	6371	6820	
62	292	3505	3908	4925	4714	5924	5925	5925	6372	6821	
63	293	3506	3909	4926	4715	5925	5926	5926	6373	6822	
64	294	3507	3910	4927	4716	5926	5927	5927	6374	6823	
65	295	3508	3911	4928	4717	5927	5928	5928	6375	6824	
66	296	3509	3912	4929	4718	5928	5929	5929	6376	6825	
67	297	3510	3913	4930	4719	5929	5930	5930	6377	6826	
68	298	3511	3914	4931	4720	5930	5931	5931	6378	6827	
69	299	3512	3915	4932	4721	5931	5932	5932	6379	6828	
70	300	3513	3916	4933	4722	5932	5933	5933	6380	6829	
71	301	3514	3917	4934	4723	5933	5934	5934	6381	6830	
72	302	3515	3918	4935	4724	5934	5935	5935	6382	6831	
73	303	3516	3919	4936	4725	5935	5936	5936	6383	6832	
74	304	3517	3920	4937	4726	5936	5937	5937	6384	6833	
75	305	3518	3921	4938	4727	5937	5938	5938	6385	6834	
76	306	3519	3922	4939	4728	5938	5939	5939	6386	6835	
77	307	3520	3923	4940	4729	5939	5940	5940	6387	6836	
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79	309	3522	3925	4942	4731	5941	5942	5942	6389	6838	
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85	315	3528	3931	4948	4737	5947	5948	5948	6395	6844	
86	316	3529	3932	4949	4738	5948	5949	5949	6396	6845	
87	317	3530	3933	4950	4739	5949	5950	5950	6397	6846	
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92	322	3535	3938	4955	4744	5954	5955	5955	6402	6851	
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22	051	2175	2578	2986	3363	3751	4139	4525	4914	5301	390
23	052	2185	2588	2996	3373	3761	4149	4535	4924	5311	391
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25	054	2205	2608	3016	3393	3781	4169	4555	4944	5331	393
26	055	2215	2618	3026	3403	3791	4179	4565	4954	5341	394
27	056	2225	2628	3036	3413	3801	4189	4575	4964	5351	395
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31	060	2265	2668	3076	3453	3841	4229	4615	5004	5391	399
32	061	2275	2678	3086	3463	3851	4239	4625	5014	5401	400
33	062	2285	2688	3096	3473	3861	4249	4635	5024	5411	401
34	063	2295	2698	3106	3483	3871	4259	4645	5034	5421	402
35	064	2305	2708	3116	3493	3881	4269	4655	5044	5431	403
36	065	2315	2718	3126	3503	3891	4279	4665	5054	5441	404
37	066	2325	2728	3136	3513	3901	4289	4675	5064	5451	405
38	067	2335	2738	3146	3523	3911	4299	4685	5074	5461	406
39	068	2345	2748	3156	3533	3921	4309	4695	5084	5471	407
40	069	2355	2758	3166	3543	3931	4319	4705	5094	5481	408
41	070	2365	2768	3176	3553	3941	4329	4715	5104	5491	409
42	071	2375	2778	3186	3563	3951	4339	4725	5114	5501	410
43	072	2385	2788	3196	3573	3961	4349	4735	5124	5511	411
44	073	2395	2798	3206	3583	3971	4359	4745	5134	5521	412
45	074	2405	2808	3216	3593	3981	4369	4755	5144	5531	413
46	075	2415	2818	3226	3603	3991	4379	4765	5154	5541	414
47	076	2425	2828	3236	3613	4001	4389	4775	5164	5551	415
48	077	2435	2838	3246	3623	4011	4399	4785	5174	5561	416
49	078	2445	2848	3256	3633	4021	4409	4795	5184	5571	417
50	079	2455	2858	3266	3643	4031	4419	4805	5194	5581	418
51	080	2465	2868	3276	3653	4041	4429	4815	5204	5591	419
52	081	2475	2878	3286	3663	4051	4439	4825	5214	5601	420
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55	084	2505	2908	3316	3693	4081	4469	4855	5244	5631	423
56	085	2515	2918	3326	3703	4091	4479	4865	5254	5641	424
57	086	2525	2928	3336	3713	4101	4489	4875	5264	5651	425
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59	088	2545	2948	3356	3733	4121	4509	4895	5284	5671	427
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61	090	2565	2968	3376	3753	4141	4529	4915	5304	5691	429
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66	095	2615	3018	3426	3803	4191	4579	4965	5354	5741	434
67	096	2625	3028	3436	3813	4201	4589	4975	5364	5751	435
68	097	2635	3038	3446	3823	4211	4599	4985	5374	5761	436
69	098	2645	3048	3456	3833	4221	4609	4995	5384	5771	437
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81	110	2765	3168	3576	3953	4341	4729	5115	5504	5891	449
82	111	2775	3178	3586	3963	4351	4739	5125	5514	5901	450
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86	115	2815	3218	3626	4003	4391	4779	5165	5554	5941	454
87	116	2825	3228	3636	4013	4401	4789	5175	5564	5951	455
88	117	2835	3238	3646	4023	4411	4799	5185	5574	5961	456
89	118	2845	3248	3656	4033	4421	4809	5195	5584	5971	457
90	119	2855	3258	3666	4043	4431	4819	5205	5594	5981	458
91	120	2865	3268	3676	4053	4441	4829	5215	5604	5991	459
92	121	2875	3278	3686	4063	4451	4839	5225	5614	6001	460
93	122	2885	3288	3696	4073	4461	4849	5235	5624	6011	461
94	123	2895	3298	3706	4083	4471	4859	5245	5634	6021	462
95	124	2905	3308	3716	4093	4481	4869	5255	5644	6031	463
96	125	2915	3318	3726	4103	4491	4879	5265	5654	6041	464
97	126	2925	3328	3736	4113	4501	4889	5275	5664	6051	465
98	127	2935	3338	3746	4123	4511	4899	5285	5674	6061	466
99	128	2945	3348	3756	4133	4521	4909	5295	5684	6071	467
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03	5333	5741	6150	6558	6967	7375	7783	8191	8600	9008	9416
04	9416	9824	10233	10641	11049	11457	11865	12273	12681	13089	13497
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05	028	7572	7979	8387	8794	9201	9609	10016	10423	10830	11237
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08	9777	10183	10589	10995	11401	11807	12213	12619	13025	13431	13837
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09	7895	8300	8706	9111	9516	9922	10327	10732	11137	11542	11947
10	1945	2350	2756	3161	3566	3971	4376	4781	5186	5591	5996
11	5997	6402	6807	7211	7616	8020	8425	8830	9234	9639	10043
12	031	0043	0447	0851	1255	1659	2063	2468	2872	3277	3681
13	4085	4489	4893	5297	5700	6104	6508	6912	7315	7719	8123
14	8123	8526	8930	9333	9737	10140	10544	10947	11350	11754	12157
15	032	0157	0560	0963	1367	1770	2173	2576	2979	3382	3785
16	0188	0590	0993	1396	1799	2201	2604	3007	3410	3813	4216
17	033	0214	0617	1019	1422	1824	2226	2629	3031	3433	3835
18	4238	4640	5042	5444	5846	6248	6650	7052	7454	7856	8258
19	8257	8659	9060	9462	9864	10265	10667	11068	11469	11871	12272
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21	4242	4643	5044	5445	5846	6247	6648	7049	7450	7851	8252
22	8253	8654	9055	9456	9857	10258	10659	11060	11461	11862	12263
23	035	0235	0636	1037	1438	1839	2240	2641	3042	3443	3844
24	4245	4646	5047	5448	5849	6250	6651	7052	7453	7854	8255
25	8256	8657	9058	9459	9860	10261	10662	11063	11464	11865	12266
26	036	0236	0637	1038	1439	1840	2241	2642	3043	3444	3845
27	4247	4648	5049	5450	5851	6252	6653	7054	7455	7856	8257
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29	037	0237	0638	1039	1440	1841	2242	2643	3044	3445	3846
30	4249	4650	5051	5452	5853	6254	6655	7056	7457	7858	8259
31	8260	8661	9062	9463	9864	10265	10666	11067	11468	11869	12270
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42	4257	4658	5059	5460	5861	6262	6663	7064	7465	7866	8267
43	8268	8669	9070	9471	9872	10273	10674	11075	11476	11877	12278
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46	8270	8671	9072	9473	9874	10275	10676	11077	11478	11879	12280
47	043	0243	0644	1045	1446	1847	2248	2649	3050	3451	3852
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49	8272	8673	9074	9475	9876	10277	10678	11079	11480	11881	12282
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51	4263	4664	5065	5466	5867	6268	6669	7070	7471	7872	8273
52	8274	8675	9076	9477	9878	10279	10680	11081	11482	11883	12284
53	045	0245	0646	1047	1448	1849	2250	2651	3052	3453	3854
54	4265	4666	5067	5468	5869	6270	6671	7072	7473	7874	8275
55	8276	8677	9078	9479	9880	10281	10682	11083	11484	11885	12286
56	046	0246	0647	1048	1449	1850	2251	2652	3053	3454	3855
57	4267	4668	5069	5470	5871	6272	6673	7074	7475	7876	8277
58	8278	8679	9080	9481	9882	10283	10684	11085	11486	11887	12288
59	047	0247	0648	1049	1450	1851	2252	2653	3054	3455	3856
60	4269	4670	5071	5472	5873	6274	6675	7076	7477	7878	8279
61	8280	8681	9082	9483	9884	10285	10686	11087	11488	11889	12290
62	048	0248	0649	1050	1451	1852	2253	2654	3055	3456	3857
63	4271	4672	5073	5474	5875	6276	6677	7078	7479	7880	8281
64	8282	8683	9084	9485	9886	10287	10688	11089	11490	11891	12292
65	049	0249	0650	1051	1452	1853	2254	2655	3056	3457	3858
66	4273	4674	5075	5476	5877	6278	6679	7080	7481	7882	8283
67	8284	8685	9086	9487	9888	10289	10690	11091	11492	11893	12294
68	050	0250	0651	1052	1453	1854	2255	2656	3057	3458	3859
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70	8286	8687	9088	9489	9890	10291	10692	11093	11494	11895	12296
71	051	0251	0652	1053	1454	1855	2256	2657	3058	3459	3860
72	4277	4678	5079	5480	5881	6282	6683	7084	7485	7886	8287
73	8288	8689	9090	9491	9892	10293	10694	11095	11496	11897	12298
74	052	0252	0653	1054	1455	1856	2257	2658	3059	3460	3861
75	4279	4680	5081	5482	5883	6284	6685	7086	7487	7888	8289
76	8290	8691	9092	9493	9894	10295	10696	11097	11498	11899	12299
77	053	0253	0654	1055	1456	1857	2258	2659	3060	3461	3862
78	4281	4682	5083	5484	5885	6286	6687	7088	7489	7890	8291
79	8292	8693	9094	9495	9896	10297	10698	11099	11500	11901	12300
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87	4287	4688	5089	5490	5891	6292	6693	7094	7495	7896	8297
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24	053	2195	2598	2996	3383	3771	4159	4546	4934	5321	
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92	022	2292	2691	3090	3489	3888	4287	4686	5085	5484	5883
93		6282	6681	7080	7479	7878	8277	8676	9075	9474	9873
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29		0781	1169	1553	1937	2321	2706	3090	3474	3858	4242	7 271 1 39
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36		7597	8069	8540	8911	9282	9653	10024	10395	10766	11137	8 308 3 115
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86	4507	4873	5239	5605	5970	6336	6702	7068	7433	7799	
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91	6404	6768	7132	7496	7860	8224	8588	8952	9316	9680	
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63		4034	4377	4721	5065	5409	5752	6096	6440	6784	7127
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76		6229	6506	6783	7060	7336	7613	7890	8167	8443	9 252
77	199	8977	9253	9529	9805	10081	10357	10633	10909	11185	1 28
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79		4545	4821	5097	5373	5649	5925	6201	6477	6753	3 84
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07	208	0159	0429	0699	0969	1240	1510	1780	2050	2320	2590	7 190
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39		5790	6055	6320	6585	6850	7115	7380	7645	7910	8175	
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42		3734	3998	4262	4526	4790	5054	5318	5582	5846	6110	3 81
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54		5355	5619	5883	6147	6411	6675	6939	7203	7467	7731	5 136
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56		0603	0866	1129	1392	1655	1918	2181	2444	2707	2970	7 189
57		3225	3487	3750	4012	4273	4536	4797	5059	5321	5583	8 215
58		5845	6107	6369	6631	6893	7155	7417	7679	7941	8203	9 242
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62		6310	6571	6833	7094	7355	7617	7878	8139	8400	8661	2 52
63	221	8922	9184	9445	9706	9967	10228	10489	10750	11011	11272	3 78
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66		6750	7011	7271	7532	7793	8053	8314	8574	8835	9096	6 157
67	222	9356	9617	9877	10138	10398	10658	10919	11179	11440	11700	7 183
68		1056	2221	2481	2741	3002	3262	3522	3783	4043	4303	8 209
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72		2353	2612	2872	3132	3392	3651	3911	4171	4431	4700	3 78
73		4950	5210	5470	5730	5990	6250	6510	6770	7030	7290	4 104
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77		5311	5570	5829	6088	6347	6606	6865	7124	7383	7642	8 208
78	225	7920	8178	8437	8696	8955	9213	9472	9731	9990	10249	9 234
79		1057	1316	1575	1834	2093	2352	2611	2870	3129	3388	1 26
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81		5677	5936	6195	6454	6713	6972	7231	7490	7749	8008	3 78
82	226	8260	8518	8777	9036	9295	9554	9813	10072	10331	10590	4 104
83		10841	11099	11358	11617	11876	12135	12394	12653	12912	13171	5 130
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87		1151	1408	1666	1923	2181	2438	2695	2953	3210	3467	9 234
88		3724	3982	4240	4497	4755	5011	5268	5525	5782	6039	1 26
89		6265	6524	6781	7038	7295	7552	7809	8066	8323	8580	2 52
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91		1436	1693	1951	2209	2467	2725	2983	3241	3499	3757	4 104
92		4070	4328	4587	4845	5103	5361	5619	5877	6135	6393	5 130
93		6570	6829	7088	7347	7605	7863	8121	8379	8637	8895	6 156
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96		4258	4517	4776	5035	5294	5553	5812	6071	6330	6589	9 234
97		6818	7077	7336	7595	7854	8113	8372	8631	8890	9149	1 26
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27	2923	3175	3426	3678	3929	4181	4432	4683	4935	5186	5 151
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31	2971	3222	3472	3723	3974	4225	4476	4727	4977	5228	9 227
32	5479	5730	5980	6231	6482	6732	6983	7234	7484	7735	1 25
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36	5477	5747	5998	6248	6498	6748	6998	7248	7498	7748	5 125
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88		3675	3918	4161	4404	4647	4890	5133	5376	5619	8 195
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92	255	3380	3622	3865	4107	4350	4593	4836	5079	5322	1 24
93		5803	6045	6287	6530	6772	7015	7258	7501	7744	2 49
94		8224	8466	8709	8951	9193	9436	9679	9922	0165	3 73
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96		3063	3305	3547	3789	4032	4275	4518	4761	4994	5 128
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99	258	0312	0553	0794	1036	1277	1519	1760	2002	2245	8 195
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07	262	9584	9825	0066	0307	0548	0789	1030	1271	1512	5 128
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09	263	4385	4626	4866	5107	5348	5589	5830	6071	6312	7 171
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11		9185	9426	9667	9908	0149	0390	0631	0872	1113	9 220
12	265	1582	1822	2063	2304	2545	2786	3027	3268	3509	
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47	4669	4904	5139	5374	5609	5844	6080	6315	6550	6785	6 142
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62	9777	10010	10243	10476	10709	10942	11175	11408	11641	11874	3 70
63	12109	12342	12575	12808	13041	13274	13507	13740	13973	14206	4 94
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68	3762	4001	4234	4466	4699	4931	5163	5395	5628	5861	9 212
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71	9738	9970	10202	10434	10666	10898	11130	11362	11594	11826	3 70
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74	7696	7928	8159	8391	8623	8854	9086	9318	9549	9781	6 142
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76	2328	2559	2791	3023	3254	3486	3717	3949	4180	4411	8 189
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83	8503	8734	8964	9195	9426	9656	9887	10117	10348	10578	6 142
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93	1505	1735	1965	2194	2424	2653	2883	3112	3341	3571	7 165
94	3800	4029	4258	4488	4717	4946	5175	5405	5634	5863	8 189
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02	280 215	2355	2555	2755	2955	3155	3355	3555	3755	3955	
03	281 445	4655	4855	5055	5255	5455	5655	5855	6055	6255	
04	282 675	6955	7155	7355	7555	7755	7955	8155	8355	8555	
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06	285 365	3855	4055	4255	4455	4655	4855	5055	5255	5455	
07	286 595	6155	6355	6555	6755	6955	7155	7355	7555	7755	
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66	5835	6056	6277	6498	6719	6940	7160	7381	7602	7823	3 66
67	294 8044	8264	8485	8706	8927	9147	9368	9589	9810	10030	4 88
68	0251	0472	0692	0913	1134	1354	1575	1795	2016	2237	5 111
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71	6866	7087	7307	7527	7748	7968	8188	8408	8629	8849	8 177
72	295 9059	9280	9500	9720	9950	0170	0390	0610	0831	1051	9 199
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82	1037	1256	1475	1694	1913	2132	2351	2570	2789	3008	9 198
83	3227	3446	3665	3884	4103	4322	4541	4760	4979	5198	1 22
84	5417	5636	5854	6073	6292	6511	6730	6949	7168	7386	2 44
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87	1979	2197	2416	2634	2853	3071	3290	3508	3727	3945	5 110
88	4164	4382	4601	4819	5038	5256	5474	5693	5911	6129	6 132
89	6348	6566	6785	7003	7221	7439	7658	7876	8094	8313	7 153
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91	299 0713	0931	1149	1367	1585	1803	2021	2239	2457	2675	9 197
92	2893	3111	3329	3547	3765	3983	4201	4419	4637	4855	1 22
93	5073	5291	5509	5727	5945	6162	6380	6598	6816	7034	2 44
94	7252	7469	7687	7905	8123	8340	8558	8776	8994	9211	3 66
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96	1605	1823	2041	2258	2476	2693	2911	3128	3346	3563	5 109
97	3781	3998	4216	4433	4650	4868	5085	5302	5520	5737	6 131
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99	291 8128	8345	8562	8780	8997	9214	9431	9648	9865	10083	8 174
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01	2471	2688	2905	3122	3339	3556	3773	3990	4207	4424	1 22
02	4641	4858	5075	5291	5508	5725	5942	6159	6376	6593	2 44
03	6809	7026	7243	7460	7677	7893	8110	8327	8544	8760	3 66
04	292 8977	9194	9411	9627	9844	10061	10277	10494	10711	10927	4 87
2005	1144	1360	1577	1794	2010	2227	2443	2660	2876	3093	5 109
06	3309	3526	3742	3959	4176	4392	4608	4825	5041	5257	6 131
07	5474	5690	5906	6123	6339	6556	6772	6988	7204	7421	7 153
08	7637	7853	8070	8286	8502	8718	8935	9151	9367	9583	8 174
09	293 9799	0016	0232	0448	0664	0880	1096	1312	1528	1745	9 195
2010	1961	2177	2393	2609	2825	3041	3257	3473	3689	3905	1 22
11	4127	4343	4559	4775	4991	5207	5423	5639	5855	6071	2 44
12	6288	6495	6711	6927	7143	7359	7575	7791	8007	8222	3 66
13	294 8438	8653	8869	9085	9301	9516	9732	9948	10163	10379	4 87
14	0595	0810	1026	1242	1457	1673	1888	2104	2319	2535	5 108
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16	4905	5121	5336	5552	5767	5982	6198	6413	6628	6844	7 151
17	7059	7274	7490	7705	7920	8135	8351	8566	8781	8996	8 173
18	295 9212	9427	9642	9857	10072	10287	10502	10717	10932	11148	9 194
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22		7812	8026	8241	8456	8671	8885	9100	9315	9530	2 43
23	306	9950	0174	0388	0603	0817	1032	1247	1461	1675	3 66
24		2105	2320	2534	2749	2963	3178	3392	3607	3821	4 86
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27		8537	8752	8966	9180	9394	9609	9823	0037	0251	7 151
28	307	0680	0894	1108	1322	1536	1750	1964	2178	2392	8 172
29		2820	3035	3249	3463	3677	3891	4105	4319	4532	9 194
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31		7099	7313	7527	7741	7954	8168	8382	8596	8810	1 21
32	308	9237	9451	9664	9878	0092	0306	0519	0733	0947	2 43
33		1374	1587	1801	2015	2228	2442	2655	2869	3082	3 66
34		3259	3723	3936	4150	4363	4577	4790	5004	5217	4 86
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36		7778	7991	8204	8418	8631	8844	9057	9271	9484	6 129
37	309	9910	0123	0337	0550	0763	0976	1189	1402	1615	7 151
38		2042	2255	2468	2681	2894	3107	3320	3533	3746	8 172
39		4172	4385	4598	4811	5024	5237	5450	5663	5875	9 194
40		6302	6515	6727	6940	7153	7366	7579	7792	8004	213
41	310	8430	8643	8856	9068	9281	9494	9707	9919	0132	1 21
42		0597	0770	0983	1195	1408	1621	1833	2046	2258	2 43
43		2684	2896	3109	3321	3534	3746	3959	4171	4384	3 66
44		4809	5021	5234	5446	5659	5871	6084	6296	6508	4 86
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46	311	9056	9269	9481	9693	9905	0117	0330	0542	0754	6 129
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53		3889	4101	4313	4524	4736	4947	5159	5370	5581	3 66
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57		2343	2554	2765	2976	3187	3398	3610	3821	4032	7 151
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59		6563	6774	6985	7196	7407	7618	7829	8040	8251	9 194
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61	314	0780	0991	1201	1412	1623	1833	2044	2255	2465	1 21
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63		4992	5203	5413	5624	5834	6045	6255	6466	6676	3 66
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66		1303	1513	1724	1934	2144	2354	2564	2774	2985	6 129
67		3405	3615	3825	4035	4245	4455	4665	4875	5085	7 151
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70		9703	9913	0123	0333	0543	0752	0962	1172	1382	210
71	316	1801	2011	2220	2430	2640	2849	3059	3269	3478	1 21
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73		5993	6203	6412	6621	6831	7040	7250	7459	7669	3 66
74		8088	8297	8506	8716	8925	9134	9344	9553	9762	4 86
75	317	0181	0390	0600	0809	1018	1227	1437	1646	1855	5 108
76		2273	2483	2692	2901	3110	3319	3528	3738	3947	6 129
77		4365	4574	4783	4992	5201	5410	5619	5828	6037	7 151
78		6455	6664	6873	7082	7291	7500	7709	7918	8127	8 172
79	318	8545	8754	8963	9172	9380	9589	9798	0007	0216	9 194
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83		6503	7101	7310	7518	7727	7935	8143	8352	8560	3 63
84	349	8977	9185	9394	9602	9811	0019	0227	0435	0644	4 84
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86		2143	2351	2559	2768	2976	3184	3392	3600	3808	6 125
87		5224	5433	5641	5849	6057	6265	6473	6681	6889	7 146
88		7305	7513	7721	7929	8137	8345	8553	8761	8969	8 167
89	350	9384	9592	9800	0008	0216	0424	0632	0839	1047	9 188
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91		2540	2748	2955	3163	3371	3579	3786	3994	4202	1 21
92		5617	5824	6032	6240	6447	6655	6862	7070	7277	2 42
93		7692	7900	8107	8315	8522	8730	8937	9145	9352	3 63
94	351	9787	9994	0182	0380	0566	0804	1011	1218	1426	4 84
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96		3913	4120	4327	4534	4742	4949	5156	5363	5570	6 125
97		5984	6191	6398	6606	6813	7020	7227	7434	7641	7 146
98		8055	8262	8469	8676	8883	9090	9297	9504	9711	8 166
99	352	0124	0331	0538	0745	0952	1159	1365	1572	1779	9 187
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03	353	8393	8599	8806	9012	9219	9425	9632	9838	0045	3 62
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11		4882	5088	5294	5499	5705	5911	6117	6322	6528	1 21
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29	358	1757	1961	2165	2369	2572	2776	2980	3184	3388	9 185
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48		0343	0545	0747	0949	1151	1354	1556	1758	1960	2162	8 162
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56		6488	6689	6890	7092	7293	7495	7696	7897	8099	8300	6 122
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59		2545	2746	2947	3148	3349	3550	3751	3952	4153	4354	9 183
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66		6585	6785	6986	7186	7386	7587	7787	7988	8188	8389	6 122
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68		0593	0793	0993	1194	1394	1594	1795	1995	2195	2395	8 162
69		2595	2795	2995	3196	3396	3597	3797	3997	4197	4397	9 183
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71		6598	6798	6998	7198	7398	7598	7798	7998	8198	8398	1 20
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78		0579	0778	0978	1177	1376	1575	1775	1974	2174	2373	8 162
79		2572	2772	2971	3170	3369	3569	3768	3967	4166	4365	9 183
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87	340	8488	8686	8885	9084	9282	9481	9679	9878	10076	10275	7 142
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19	1573	1769	1964	2160	2356	2551	2747	2943	3138	3334	7 137
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24	1348	1543	1738	1934	2129	2324	2519	2715	2910	3105	
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25	5252	5447	5642	5837	6032	6227	6422	6617	6812	7007	
26	7202	7397	7592	7787	7982	8177	8372	8567	8762	8957	
27	348 9152	9347	9542	9737	9931	0126	0321	0516	0711	0906	195
28	1101	1296	1490	1685	1880	2075	2270	2464	2659	2854	2 20
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31	4926	5100	5285	5480	5674	5869	6064	6258	6453	6647	4 78
32	6942	7136	7331	7526	7720	7915	8109	8304	8498	8693	5 98
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34	0832	1026	1220	1415	1609	1804	1998	2192	2387	2581	7 137
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36	4718	4912	5106	5301	5495	5689	5883	6077	6272	6466	9 176
37	6660	6854	7048	7242	7436	7630	7825	8019	8213	8407	
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42	6356	6550	6743	6937	7131	7325	7518	7712	7905	8099	3 58
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44	0229	0422	0615	0808	1003	1196	1390	1583	1777	1970	5 97
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46	4098	4291	4484	4678	4871	5064	5258	5451	5644	5837	7 136
47	6031	6224	6417	6611	6804	6997	7190	7383	7577	7770	8 155
48	7963	8156	8349	8543	8736	8929	9122	9315	9508	9701	9 175
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53	7612	7805	7997	8190	8383	8576	8769	8961	9154	9346	2 19
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56	3391	3583	3776	3968	4161	4353	4546	4738	4931	5123	5 97
57	5316	5508	5700	5893	6085	6278	6470	6662	6855	7047	6 116
58	7239	7432	7624	7816	8009	8201	8393	8586	8778	8970	7 135
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56		4515	4707	4898	5090	5281	5473	5664	5856	6048	6239
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58		8345	8536	8728	8919	9111	9302	9493	9685	9876	
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71		2171	2363	2554	2745	2936	3127	3319	3510	3701	3892
72		4083	4274	4465	4657	4848	5039	5230	5421	5612	5803
73		5924	6115	6306	6497	6688	6879	7070	7261	7452	7643
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76		1723	1913	2104	2295	2486	2677	2867	3058	3249	3440
77		3630	3821	4012	4203	4393	4584	4775	4965	5156	5347
78		5537	5728	5918	6109	6300	6490	6681	6872	7062	7253
79		7443	7634	7824	8015	8205	8396	8586	8777	8967	9158
2280											
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83		3156	3347	3537	3727	3918	4108	4298	4488	4679	4869
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85	359		8852	9042	9232	9422	9612	0002	0192	0382	0572
86		0762	0952	1142	1332	1522	1712	1902	2092	2282	2472
87		2662	2852	3041	3231	3421	3611	3801	3991	4181	4371
88		4560	4750	4940	5130	5319	5509	5699	5889	6078	6268
89		6458	6648	6837	7027	7217	7406	7596	7786	7975	8165
2290											
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92		0251	0440	0630	0820	1009	1199	1388	1578	1767	1957
93		2146	2336	2525	2715	2904	3093	3283	3472	3662	3851
94		4041	4230	4419	4609	4798	4987	5177	5366	5556	5745
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95		7827	8016	8205	8395	8584	8773	8962	9151	9341	9530
96	361		9719	9908	0097	0286	0475	0664	0854	1043	1232
97		1610	1799	1988	2177	2366	2555	2744	2933	3122	3311
98		3600	3689	3878	4067	4256	4445	4634	4823	5012	5201
99		5390	5579	5768	5956	6145	6334	6523	6712	6901	7090
2300											
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02		9166	9355	9544	9732	9921	0110	0298	0487	0676	0865
03		1053	1242	1430	1619	1808	1996	2185	2374	2562	2751
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06	363		8593	8781	8970	9158	9346	9535	9723	9911	0099
07		0476	0664	0852	1041	1229	1417	1605	1794	1982	2170
08		2358	2546	2734	2923	3111	3299	3487	3675	3863	4051
09		4239	4427	4615	4804	4992	5180	5368	5556	5744	5932
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12	364		7909	8187	8375	8563	8751	8939	9127	9315	9503
13		9878	0066	0254	0442	0630	0817	1005	1193	1381	1569
14		1756	1944	2132	2320	2507	2695	2883	3070	3258	3446
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16		7386	7573	7761	7948	8136	8323	8511	8698	8885	9073
17	365		9260	9448	9635	9823	0010	0197	0385	0572	0760
18		1134	1322	1509	1696	1884	2071	2258	2446	2633	2820
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22	8620	8809	8996	9183	9370	9557	9744	9931	0118	0305	2 37
23	0492	0679	0866	1053	1240	1427	1614	1801	1987	2173	3 56
24	2361	2548	2735	2922	3109	3296	3484	3670	3856	4043	4 75
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26	6097	6284	6471	6657	6844	7031	7217	7404	7591	7777	6 112
27	7964	8150	8337	8524	8710	8897	9083	9270	9457	9643	7 131
28	9830	0016	0203	0389	0576	0762	0949	1136	1322	1508	8 150
29	1695	1881	2068	2254	2441	2627	2814	3000	3186	3373	9 168
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34	1009	1195	1381	1567	1753	1939	2125	2311	2497	2683	1 19
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36	4725	4911	5097	5283	5469	5655	5841	6026	6212	6401	3 56
37	6587	6773	6959	7145	7330	7516	7702	7888	8074	8259	4 75
38	8445	8631	8817	9004	9188	9374	9559	9745	9931	0117	5 94
39	0302	0488	0674	0859	1045	1230	1416	1602	1787	1973	6 112
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42	5869	6054	6240	6425	6611	6796	6981	7167	7352	7538	9 167
43	7725	7909	8094	8279	8464	8650	8835	9020	9205	9391	
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52	4373	4558	4742	4927	5112	5296	5481	5666	5850	6035	3 56
53	6019	6204	6388	6573	6757	6942	7127	7311	7496	7680	4 75
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57	3526	3709	3894	4078	4262	4447	4631	4815	4999	5183	8 149
58	5438	5622	5806	5991	6175	6359	6543	6727	6911	7095	9 167
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61	0960	1144	1328	1512	1696	1879	2063	2247	2431	2615	1 18
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63	4657	4841	5025	5209	5392	5576	5760	5944	6127	6311	3 55
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66	0147	0331	0515	0698	0882	1065	1249	1432	1616	1799	6 110
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68	3817	4000	4184	4367	4551	4734	4917	5101	5284	5467	8 147
69	5691	5874	6057	6241	6424	6607	6790	6973	7156	7339	9 165
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72	1147	1330	1513	1696	1879	2062	2245	2428	2611	2794	1 18
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77	0920	0475	0659	0842	1025	1208	1391	1574	1757	1940	6 110
78	2119	2303	2486	2669	2852	3035	3218	3399	3582	3765	7 128
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83	1240	1422	1605	1787	1969	2151	2334	2516	2698	2880	1 18
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91	5796	5977	6159	6341	6522	6704	6886	7067	7249	7430	9 164
92	7612	7793	7975	8156	8338	8519	8701	8882	9064	9245	
93	9427	9608	9790	9971	0153	0334	0516	0697	0879	1060	
94	1241	1422	1604	1786	1967	2148	2330	2511	2692	2874	
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11	1972	2152	2332	2512	2693	2873	3053	3233	3413	3593	1 18
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28	2487	2666	2845	3024	3202	3381	3560	3739	3918	4096	7 127
29	4273	4452	4631	4810	4989	5168	5347	5526	5705	5884	8 145
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37	8555	8733	8912	9090	9268	9446	9624	9803	9981	0159	7 127
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42		7437	7614	7792	7970	8148	8326	8504	8682	8860	36
43	388	9236	9412	9589	9767	9945	0123	0301	0479	0657	54
44		1012	1190	1367	1545	1723	1900	2078	2256	2433	72
2445		2789	2966	3144	3321	3499	3677	3854	4032	4209	90
45		4565	4742	4920	5097	5275	5452	5630	5807	5985	108
46		6340	6517	6695	6872	7050	7227	7404	7582	7759	126
47		8114	8292	8469	8646	8824	9001	9178	9356	9533	144
48		9888	0065	0243	0420	0597	0774	0952	1129	1306	162
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53		6775	7153	7330	7507	7684	7861	8038	8215	8392	254
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56		4052	4228	4405	4582	4759	4935	5112	5289	5466	326
57		5819	5995	6172	6349	6525	6702	6879	7056	7232	344
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53		4644	4820	4997	5173	5349	5525	5702	5878	6054	454
54		6407	6583	6760	6936	7112	7288	7464	7641	7817	472
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56		1601	1808	2044	2220	2396	2572	2748	2924	3100	526
57		3452	3628	3803	3979	4155	4331	4507	4683	4859	544
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74		3907	4172	4348	4524	4699	4875	5050	5226	5401	652
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86		6758	6933	7107	7282	7456	7631	7805	7980	8155	886
87		8504	8678	8853	9027	9202	9376	9551	9725	9900	904
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89											940
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91		3737	3912	4086	4260	4435	4609	4783	4958	5132	958
92		5480	5655	5829	6003	6177	6351	6525	6700	6874	976
93		7223	7397	7571	7745	7919	8093	8267	8441	8615	994
94	394	8964	9138	9312	9486	9660	9834	0008	0182	0356	1012
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96		4185	4359	4533	4707	4881	5055	5229	5403	5577	1066
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07	1543	1717	1890	2063	2236	2409	2583	2756	2929	3102	7 181
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26	4333	4505	4677	4849	5021	5193	5365	5537	5709	5881	6 103
27	5952	6124	6296	6468	6640	6812	6984	7156	7328	7500	7 180
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29	9488	9660	9832	10004	10176	10348	10520	10692	10864	11036	9 156
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47	1994	2166	2338	2510	2682	2854	3026	3198	3370	3542	
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52		5791	5941	6091	6241	6390	6540	6689	6839	6988	17
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54		9180	9330	9480	9630	9779	9929	10078	10228	10377	17
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55		2567	2717	2867	3017	3166	3316	3465	3615	3764	169
56		4459	4609	4759	4909	5058	5208	5357	5507	5656	169
57		5950	6100	6250	6400	6549	6699	6848	6998	7147	169
58		7541	7691	7841	7991	8140	8290	8439	8589	8738	169
59											
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71		1081	1231	1381	1531	1680	1830	1979	2129	2278	168
72		2715	2865	3015	3165	3314	3464	3613	3763	3912	168
73		4348	4498	4648	4798	4947	5097	5246	5396	5545	168
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75		9599	9749	9899	10048	10198	10347	10497	10646	10796	168
76		1144	1294	1444	1594	1743	1893	2042	2192	2341	168
77		2885	3035	3185	3335	3484	3634	3783	3933	4082	168
78		4613	4763	4913	5063	5212	5362	5511	5661	5810	168
79											
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81		7880	8030	8180	8330	8479	8629	8778	8928	9077	168
82		9599	9749	9899	10048	10198	10347	10497	10646	10796	168
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85		5985	6135	6285	6435	6584	6734	6883	7033	7182	167
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87		9643	9793	9943	10092	10242	10391	10541	10690	10839	167
88		1181	1331	1481	1631	1780	1930	2079	2229	2378	167
89											
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91		4674	4824	4974	5124	5273	5423	5572	5722	5871	167
92		5360	5510	5660	5810	5959	6109	6258	6408	6557	167
93		6045	6195	6345	6495	6644	6794	6943	7093	7242	167
94		6730	6880	7030	7180	7329	7479	7628	7778	7927	167
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95		8102	8252	8402	8552	8701	8851	8999	9149	9298	167
96		8787	8937	9087	9237	9386	9536	9685	9835	9984	167
97		9472	9622	9772	9922	10071	10221	10370	10520	10669	167
98		10157	10307	10457	10607	10756	10906	11055	11205	11354	167
99		10842	10992	11142	11292	11441	11591	11740	11890	12039	167
2590	416	11527	11677	11827	11977	12126	12276	12425	12575	12724	166
01		12212	12362	12512	12662	12811	12961	13110	13260	13409	166
02		12897	13047	13197	13347	13496	13646	13795	13945	14094	166
03		13582	13732	13882	14032	14181	14331	14480	14630	14779	166
04		14267	14417	14567	14717	14866	15016	15165	15315	15464	166
2595	417	14952	15102	15252	15402	15551	15701	15850	15999	16149	166
05		15637	15787	15937	16087	16236	16386	16535	16685	16834	166
06		16322	16472	16622	16772	16921	17071	17220	17370	17519	166
07		17007	17157	17307	17457	17606	17756	17905	18055	18204	166
08		17692	17842	17992	18142	18291	18441	18590	18740	18889	166
09		18377	18527	18677	18827	18976	19126	19275	19425	19574	166
2600	418	19062	19212	19362	19512	19661	19811	19960	20110	20259	166
10		20747	20897	21047	21197	21346	21496	21645	21795	21944	166
11		21432	21582	21732	21882	22031	22181	22330	22480	22629	166
12		22117	22267	22417	22567	22716	22866	23015	23165	23314	166
13		22802	22952	23102	23252	23401	23551	23700	23850	23999	166
2605	419	23487	23637	23787	23937	24086	24236	24385	24535	24684	165
14		24172	24322	24472	24622	24771	24921	25070	25220	25369	165
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17		26227	26377	26527	26677	26826	26976	27125	27275	27424	165
18		26912	27062	27212	27362	27511	27661	27810	27960	28109	165
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02		6347	6403	6568	6824	6989	7155	7321	7486	7652	157
03		7753	8148	8314	8480	8645	8811	8976	9142	9307	153
04	419	9508	9804	9969	0135	0300	0465	0631	0797	0962	149
2005		1123	1459	1624	1789	1955	2120	2285	2451	2616	145
06		2847	3113	3278	3443	3609	3774	3939	4105	4270	141
07		4601	4766	4931	5097	5262	5427	5593	5758	5923	137
08		6254	6419	6584	6749	6915	7080	7245	7410	7575	133
09		7905	8071	8236	8401	8567	8732	8897	9062	9227	129
2010	420	9597	9762	9928	0093	0258	0423	0588	0753	0918	125
31		1208	1374	1539	1704	1869	2034	2199	2364	2529	121
32		2859	3024	3189	3354	3519	3684	3849	4014	4179	117
33		4509	4674	4838	5003	5168	5333	5498	5663	5828	113
34		6158	6323	6487	6652	6817	6982	7147	7312	7477	109
2015		7806	7971	8136	8301	8465	8630	8795	8960	9125	105
36	421	9484	9649	9814	9979	0143	0308	0473	0638	0803	101
37		1101	1265	1431	1595	1760	1925	2090	2254	2419	97
38		2748	2913	3077	3242	3406	3571	3736	3900	4065	93
39		4394	4558	4723	4888	5052	5217	5381	5546	5710	89
2020		6039	6204	6368	6533	6697	6862	7026	7191	7355	85
41		7684	7848	8013	8177	8341	8506	8671	8835	8999	81
42	422	9328	9493	9657	9821	9986	0150	0314	0479	0643	77
43		0772	1136	1300	1465	1629	1793	1957	2122	2286	73
44		2515	2679	2843	3107	3271	3435	3600	3764	3928	69
2025		4257	4421	4585	4749	4913	5078	5242	5406	5570	65
46		5818	6082	6246	6410	6574	6738	6902	7066	7230	61
47		7539	7703	7867	8031	8195	8359	8523	8687	8851	57
48	423	9180	9344	9508	9672	9836	0000	0164	0328	0492	53
49		0820	0984	1147	1311	1475	1639	1803	1967	2131	49
2030		2453	2617	2781	2945	3109	3273	3437	3601	3765	45
51		4077	4241	4405	4569	4733	4897	5061	5225	5389	41
52		5735	5899	6063	6227	6391	6555	6719	6883	7047	37
53		7372	7536	7700	7864	8028	8192	8356	8520	8684	33
54	424	9009	9173	9337	9501	9665	9829	9993	0157	0321	29
2035		0645	0809	0973	1137	1301	1465	1629	1793	1957	25
56		2281	2445	2609	2773	2937	3101	3265	3429	3593	21
57		3915	4079	4243	4407	4571	4735	4899	5063	5227	17
58		5550	5714	5878	6042	6206	6370	6534	6698	6862	13
59		7183	7347	7511	7675	7839	8003	8167	8331	8495	9
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61		0449	0613	0777	0941	1105	1269	1433	1597	1761	159
62		2081	2245	2409	2573	2737	2901	3065	3229	3393	155
63		3712	3876	4040	4204	4368	4532	4696	4860	5024	151
64		5342	5506	5670	5834	5998	6162	6326	6490	6654	147
2045		6972	7136	7300	7464	7628	7792	7956	8120	8284	143
66	426	8601	8765	8929	9093	9257	9421	9585	9749	9913	139
67		0230	0394	0558	0722	0886	1050	1214	1378	1542	135
68		1858	2022	2186	2350	2514	2678	2842	3006	3170	131
69		3486	3650	3814	3978	4142	4306	4470	4634	4798	127
2050		5113	5277	5441	5605	5769	5933	6097	6261	6425	123
71		6739	6903	7067	7231	7395	7559	7723	7887	8051	119
72		8365	8529	8693	8857	9021	9185	9349	9513	9677	115
73	427	9990	0154	0318	0482	0646	0810	0974	1138	1302	111
74		1514	1678	1842	2006	2170	2334	2498	2662	2826	107
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77		6484	6648	6812	6976	7140	7304	7468	7632	7796	95
78		8106	8270	8434	8598	8762	8926	9090	9254	9418	91
79	428	9797	9961	0025	0189	0353	0517	0681	0845	1009	87
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81		2658	3120	3492	3854	4216	4578	4940	5302	5664	1 16
82		4688	4760	4912	5073	5235	5397	5559	5721	5883	2 32
83		6207	6369	6530	6692	6854	7016	7178	7340	7502	3 48
84		7825	7987	8149	8311	8472	8634	8796	8958	9119	4 64
2685		9443	9605	9766	9928	0090	0252	0413	0575	0737	5 80
85	469	1060	1222	1383	1545	1707	1868	2030	2192	2353	6 97
86		2677	2838	3000	3162	3323	3485	3646	3808	3969	7 113
87		4293	4454	4616	4777	4939	5100	5262	5423	5585	8 130
88		5908	6070	6231	6393	6554	6715	6877	7038	7200	9 146
2690		7825	7987	8149	8311	8472	8634	8796	8958	9119	
91		9137	9298	9460	9621	9782	9944	0105	0267	0428	589
92	430	0751	0912	1073	1235	1396	1557	1718	1880	2041	589
93		2364	2525	2686	2847	3009	3170	3331	3492	3653	3815
94		3976	4137	4298	4460	4621	4782	4943	5104	5265	5427
2695		5588	5749	5910	6071	6232	6393	6554	6715	6877	7038
95		7199	7360	7521	7682	7843	8004	8165	8326	8487	8648
96		8809	8970	9131	9292	9453	9614	9775	9936	0097	0258
97	431	0419	0580	0741	0902	1063	1224	1385	1546	1707	1868
98		2029	2190	2351	2512	2672	2833	2994	3155	3316	3477
99											161
2700		3538	3700	3861	4022	4183	4344	4505	4666	4827	1 16
01		5146	5307	5468	5629	5790	5951	6112	6273	6434	2 32
02		6753	6914	7075	7236	7397	7558	7719	7880	8041	3 48
03		8460	8621	8782	8943	9104	9265	9426	9587	9748	4 64
04	432	0067	0228	0389	0550	0711	0872	1033	1194	1355	5 80
2705		1673	1833	1994	2155	2316	2477	2638	2799	2960	6 97
05		3278	3438	3599	3760	3921	4082	4243	4404	4565	7 113
06		4883	5043	5204	5365	5526	5687	5848	6009	6169	8 130
07		6487	6647	6808	6969	7129	7290	7451	7612	7773	9 146
08		8093	8253	8414	8575	8735	8896	9057	9218	9379	
2710		9693	9853	0013	0174	0334	0495	0656	0817	0977	1138
11	433	1295	1455	1616	1777	1938	2099	2260	2421	2582	2743
12		2897	3057	3217	3378	3539	3699	3860	4021	4182	4343
13		4448	4608	4769	4929	5090	5251	5412	5573	5734	5895
14		6098	6258	6419	6579	6740	6901	7062	7223	7384	7545
2715		7698	7858	8019	8179	8340	8501	8662	8823	8984	9145
15		9298	9458	9617	9778	9939	0099	0260	0421	0582	0743
16	434	0896	1056	1217	1378	1539	1699	1860	2021	2182	2343
17		2495	2655	2816	2977	3138	3299	3460	3621	3782	3943
18		4092	4252	4413	4574	4735	4896	5057	5218	5379	5540
19											
2720		5689	5849	6009	6169	6328	6489	6649	6809	6969	7129
21		7288	7448	7608	7768	7928	8088	8248	8408	8568	8728
22		8881	9041	9201	9361	9521	9681	9841	10001	10161	10321
23	435	0476	0636	0796	0956	1116	1276	1437	1597	1758	1918
24		2071	2230	2390	2550	2710	2870	3031	3191	3352	3512
2725		3655	3814	3974	4134	4294	4454	4615	4775	4936	5096
25		5250	5410	5570	5730	5890	6050	6211	6371	6532	6692
26		6851	7011	7171	7331	7491	7651	7812	7972	8132	8293
27		8444	8603	8763	8923	9083	9243	9403	9563	9723	9884
28											
29	436	0035	0194	0354	0513	0672	0831	0990	1149	1308	1467
2730		1626	1785	1945	2104	2263	2422	2581	2740	2899	3058
31		3217	3376	3535	3694	3853	4012	4171	4330	4489	4648
32		4807	4966	5125	5284	5443	5602	5761	5920	6079	6238
33		6396	6555	6714	6873	7032	7191	7350	7509	7668	7827
34		7985	8144	8303	8462	8621	8780	8939	9098	9257	9416
2735	437	9873	9932	9991	0050	0108	0267	0326	0385	0444	0503
35		1161	1320	1479	1637	1796	1955	2114	2273	2432	2591
36		2748	2907	3065	3224	3383	3541	3700	3859	4018	4177
37		4334	4493	4652	4810	4969	5128	5287	5446	5605	5764
38		5920	6079	6237	6396	6555	6714	6873	7032	7191	7350
39											
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41	438	9090	9249	9407	9566	9724	9883	10041	10199	10358	16
42		0675	0833	0991	1150	1308	1466	1625	1783	1941	32
43		2258	2416	2575	2733	2891	3050	3208	3366	3525	48
44		3841	3999	4158	4316	4474	4632	4791	4949	5107	64
2745		5423	5582	5740	5898	6056	6214	6373	6531	6689	80
45		7005	7163	7322	7480	7638	7796	7954	8112	8270	96
46	439	8587	8745	8903	9061	9219	9377	9535	9693	9851	112
47		0167	0325	0483	0641	0799	0957	1115	1273	1431	128
48		1747	1905	2063	2221	2379	2537	2695	2853	3011	144
2750		3327	3485	3643	3801	3959	4116	4274	4432	4590	160
51		4906	5064	5222	5380	5537	5695	5853	6011	6169	176
52		6484	6642	6800	6958	7115	7273	7431	7589	7747	192
53		8062	8220	8378	8536	8693	8851	9009	9166	9324	208
54	440	9539	9777	9955	0112	0270	0428	0585	0743	0901	224
2755		1216	1374	1531	1689	1847	2004	2162	2319	2477	240
55		2722	2880	3107	3265	3422	3580	3738	3895	4053	256
56		4368	4525	4683	4840	4998	5155	5313	5470	5628	272
57		5943	6100	6258	6415	6572	6730	6887	7045	7202	288
58		7517	7674	7832	7989	8147	8304	8461	8619	8776	304
2760		9091	9248	9406	9563	9720	9878	10035	10192	10349	320
61	441	0664	0821	0979	1136	1293	1450	1608	1765	1922	336
62		2237	2394	2551	2708	2866	3023	3180	3337	3494	352
63		3809	3966	4123	4280	4438	4595	4752	4909	5066	368
64		5380	5538	5695	5852	6009	6166	6323	6480	6637	384
2765		6951	7108	7265	7423	7580	7737	7894	8051	8208	399
65		8522	8679	8836	8993	9150	9307	9464	9621	9778	415
66	442	0092	0249	0406	0563	0719	0876	1033	1190	1347	431
67		1561	1718	1875	2032	2188	2345	2502	2659	2816	447
68		3230	3386	3543	3700	3857	4014	4171	4327	4484	463
2770		4795	4952	5111	5268	5425	5582	5738	5895	6052	479
71		6365	6522	6679	6836	6992	7149	7306	7462	7619	495
72		7932	8089	8246	8402	8559	8716	8872	9029	9186	511
73	443	9499	9655	9812	9969	0125	0282	0438	0595	0751	527
74		1065	1221	1378	1534	1691	1847	2004	2160	2317	543
2775		2630	2786	2943	3099	3256	3412	3569	3725	3882	559
75		4195	4351	4507	4664	4820	4977	5133	5290	5446	575
76		5759	5915	6072	6228	6384	6541	6697	6853	7010	591
77		7322	7479	7635	7791	7948	8104	8260	8417	8573	607
78		8885	9042	9198	9354	9511	9667	9823	9979	0135	623
2780		0448	0604	0760	0917	1073	1229	1385	1541	1698	639
81		2010	2166	2322	2478	2635	2791	2947	3103	3259	655
82		3571	3727	3883	4040	4196	4352	4508	4664	4820	671
83		5132	5288	5444	5600	5756	5912	6068	6224	6380	687
84		6692	6848	7004	7160	7316	7472	7628	7784	7940	703
2785		8252	8408	8564	8720	8876	9032	9188	9344	9499	719
85	444	9811	9967	0123	0279	0435	0590	0746	0902	1058	735
86		1370	1526	1681	1837	1993	2149	2305	2460	2616	751
87		2928	3083	3239	3395	3551	3706	3862	4018	4174	767
88		4485	4641	4797	4952	5108	5264	5419	5575	5731	783
2790		6042	6198	6353	6509	6665	6820	6976	7132	7287	799
91		7598	7754	7910	8065	8221	8376	8532	8687	8843	815
92	445	9154	9310	9465	9621	9776	9932	0087	0243	0398	831
93		0709	0865	1020	1176	1331	1487	1642	1798	1953	847
94		2264	2419	2575	2730	2885	3041	3197	3352	3507	863
2795		3818	3974	4129	4284	4440	4595	4750	4905	5061	879
95		5372	5527	5682	5838	5993	6148	6304	6459	6614	895
96		6925	7080	7235	7390	7546	7701	7856	8011	8167	911
97		8477	8632	8788	8943	9098	9253	9408	9563	9719	927
98											
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01	3131	3286	3441	3596	3751	3906	4061	4216	4371	4526	156
02	4681	4836	4991	5146	5301	5456	5611	5766	5921	6076	157
03	6631	6786	6941	7096	7251	7406	7561	7716	7871	8026	158
04	7780	7935	8090	8245	8400	8555	8710	8865	9020	9175	159
2805	448	9483	9638	9793	9948	0103	0258	0413	0568	0723	160
06	0877	1031	1185	1340	1495	1650	1805	1960	2115	2270	161
07	2424	2579	2734	2888	3043	3198	3353	3508	3663	3818	162
08	3971	4126	4280	4435	4590	4744	4899	5054	5209	5364	163
09	5617	5772	5927	6081	6236	6391	6546	6701	6856	7011	164
2810	7063	7218	7373	7527	7682	7836	7991	8146	8301	8456	165
11	8608	8763	8917	9072	9227	9381	9536	9691	9846	9999	166
12	449	0153	0308	0463	0617	0772	0926	1081	1236	1391	167
13	1697	1852	2006	2161	2315	2470	2625	2779	2934	3089	168
14	3241	3395	3550	3704	3859	4013	4168	4323	4478	4632	169
2815	4784	4938	5093	5247	5401	5556	5710	5865	6020	6175	170
16	6427	6581	6736	6890	7045	7199	7354	7509	7664	7818	171
17	7668	7823	7977	8132	8286	8441	8596	8750	8905	9060	172
18	9410	9564	9719	9873	10028	10182	10337	10491	10646	10800	173
19	450	0551	1105	1659	2213	2767	3321	3875	4429	4983	174
2820	8491	8645	8799	8953	9107	9261	9415	9569	9723	9877	175
21	4031	4185	4339	4493	4647	4801	4955	5109	5263	5417	176
22	5670	5824	5978	6132	6286	6440	6594	6748	6902	7056	177
23	7109	7263	7417	7571	7725	7879	8033	8187	8341	8495	178
24	451	8647	8801	8955	9109	9263	9417	9571	9725	9879	179
2825	0185	0339	0493	0647	0801	0955	1109	1263	1417	1571	180
26	1722	1876	2030	2184	2338	2492	2646	2800	2954	3108	181
27	3658	3812	3966	4120	4274	4428	4582	4736	4890	5044	182
28	4794	4948	5102	5256	5410	5564	5718	5872	6026	6180	183
29	6439	6593	6747	6901	7055	7209	7363	7517	7671	7825	184
2830	7864	8018	8172	8326	8480	8634	8788	8942	9096	9250	185
31	452	9399	9553	9707	9861	0015	0169	0323	0477	0631	186
32	0932	1086	1240	1394	1548	1702	1856	2010	2164	2318	187
33	2466	2620	2774	2928	3082	3236	3390	3544	3698	3852	188
34	3998	4152	4306	4460	4614	4768	4922	5076	5230	5384	189
2835	6631	6785	6939	7093	7247	7401	7555	7709	7863	8017	190
36	7068	7222	7376	7530	7684	7838	7992	8146	8300	8454	191
37	8593	8747	8901	9055	9209	9363	9517	9671	9825	9979	192
38	453	0194	0877	1560	2243	2926	3609	4292	4975	5658	193
39	1684	1807	1960	2113	2266	2419	2572	2725	2878	3031	194
2840	3183	3336	3489	3642	3795	3948	4101	4254	4407	4560	195
41	4712	4865	5018	5171	5324	5477	5630	5783	5936	6089	196
42	6241	6394	6547	6700	6853	7006	7159	7312	7465	7618	197
43	7769	7922	8075	8228	8381	8534	8687	8840	8993	9146	198
44	454	9296	9449	9602	9755	9908	0061	0214	0367	0520	199
2845	0823	0975	1128	1281	1434	1587	1740	1893	2046	2199	200
46	2349	2502	2655	2808	2961	3114	3267	3420	3573	3726	201
47	3875	4028	4181	4334	4487	4640	4793	4946	5099	5252	202
48	5400	5553	5706	5859	6012	6165	6318	6471	6624	6777	203
49	6924	7077	7230	7383	7536	7689	7842	7995	8148	8301	204
2850	8449	8602	8755	8908	9061	9214	9367	9520	9673	9826	205
51	455	9972	0125	0278	0431	0584	0737	0890	1043	1196	206
52	1495	1648	1801	1954	2107	2260	2413	2566	2719	2872	207
53	3018	3171	3324	3477	3630	3783	3936	4089	4242	4395	208
54	4849	4999	5152	5305	5458	5611	5764	5917	6070	6223	209
2855	6061	6214	6367	6520	6673	6826	6979	7132	7285	7438	210
56	7682	7835	7988	8141	8294	8447	8600	8753	8906	9059	211
57	456	9102	9255	9408	9561	9714	9867	0020	0173	0326	212
58	0603	0756	0909	1062	1215	1368	1521	1674	1827	1980	213
59	2449	2602	2755	2908	3061	3214	3367	3520	3673	3826	214
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153

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51		5172	5330	5482	5634	5786	5938	6089	6241	6393	6545
52		5646	5804	5952	6104	6256	6408	6559	6711	6863	7015
53		6213	6365	6517	6669	6821	6972	7124	7276	7428	7580
54	457	7730	7882	8033	8185	8337	8488	8640	8791	8943	9095
2855		1216	1378	1540	1701	1863	2004	2155	2307	2459	2610
55		2724	2876	3028	3180	3332	3483	3635	3787	3938	4090
56		4277	4429	4580	4732	4883	5034	5186	5337	5489	5640
57		5711	5863	5974	6126	6277	6429	6580	6732	6883	7035
58		7315	7467	7618	7770	7921	8072	8224	8375	8527	8678
2870	458	8819	8970	9122	9273	9424	9575	9727	9878	10029	10181
71		0332	0483	0634	0785	0937	1088	1239	1391	1542	1693
72		1844	1995	2147	2298	2449	2600	2752	2903	3054	3205
73		3316	3467	3618	3769	3921	4072	4223	4374	4525	4676
74		4888	5039	5190	5341	5492	5643	5794	5945	6096	6247
2875		6359	6510	6661	6812	6963	7114	7265	7416	7567	7718
75		7829	8040	8191	8342	8493	8644	8795	8946	9097	9248
77	459	9359	9510	9661	9812	9963	0114	0265	0416	0567	0718
78		0928	1079	1230	1381	1532	1683	1834	1985	2136	2287
79		2447	2598	2749	2899	3050	3201	3352	3503	3654	3805
2880		3956	4076	4226	4377	4528	4679	4830	4980	5131	5282
81		5433	5583	5734	5885	6036	6187	6337	6488	6639	6790
82		6910	7060	7211	7362	7513	7664	7814	7965	8116	8267
83		8446	8597	8748	8899	9050	9201	9352	9503	9654	9805
84	460	9933	0103	0254	0404	0555	0706	0856	1007	1157	1308
2885		1418	1569	1719	1870	2020	2171	2321	2472	2623	2773
85		2823	3114	3264	3415	3565	3716	3866	4017	4167	4318
86		4468	4618	4769	4919	5070	5220	5371	5521	5672	5822
87		5972	6123	6273	6424	6574	6725	6875	7026	7177	7327
88		7475	7626	7776	7927	8077	8228	8378	8529	8679	8830
2890	461	8978	9129	9279	9429	9579	9730	9880	10030	10180	10331
91		0481	0631	0781	0932	1082	1232	1382	1533	1683	1833
92		1933	2133	2283	2433	2584	2734	2884	3034	3184	3334
93		3484	3634	3785	3935	4085	4236	4386	4536	4687	4837
94		4985	5135	5285	5435	5585	5736	5886	6036	6187	6337
2895		6486	6636	6786	6936	7086	7236	7386	7537	7687	7837
95		7938	8088	8238	8388	8538	8688	8839	8989	9139	9289
96	462	9485	9635	9785	9935	10085	10235	10385	10535	10685	10835
97		10985	11135	11285	11435	11585	11735	11885	12035	12185	12335
98		12485	12635	12785	12935	13085	13235	13385	13535	13685	13835
2900		13985	14135	14285	14435	14585	14735	14885	15035	15185	15335
01		15485	15635	15785	15935	16085	16235	16385	16535	16685	16835
02		16985	17135	17285	17435	17585	17735	17885	18035	18185	18335
03		18485	18635	18785	18935	19085	19235	19385	19535	19685	19835
04	463	19985	20135	20285	20435	20585	20735	20885	21035	21185	21335
2905		21485	21635	21785	21935	22085	22235	22385	22535	22685	22835
05		22985	23135	23285	23435	23585	23735	23885	24035	24185	24335
06		24485	24635	24785	24935	25085	25235	25385	25535	25685	25835
07		25985	26135	26285	26435	26585	26735	26885	27035	27185	27335
08		27485	27635	27785	27935	28085	28235	28385	28535	28685	28835
09		28985	29135	29285	29435	29585	29735	29885	30035	30185	30335
2910	464	30485	30635	30785	30935	31085	31235	31385	31535	31685	31835
11		31985	32135	32285	32435	32585	32735	32885	33035	33185	33335
12		33485	33635	33785	33935	34085	34235	34385	34535	34685	34835
13		34985	35135	35285	35435	35585	35735	35885	36035	36185	36335
2915		36485	36635	36785	36935	37085	37235	37385	37535	37685	37835
14		37985	38135	38285	38435	38585	38735	38885	39035	39185	39335
15	465	39485	39635	39785	39935	40085	40235	40385	40535	40685	40835
16		40985	41135	41285	41435	41585	41735	41885	42035	42185	42335
17		42485	42635	42785	42935	43085	43235	43385	43535	43685	43835
18		43985	44135	44285	44435	44585	44735	44885	45035	45185	45335
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21	5316	5464	5613	5762	5910	6059	6208	6356	6505	6653	15
22	6802	6951	7099	7248	7397	7545	7694	7842	7991	8140	30
23	8228	8437	8585	8734	8882	9031	9180	9328	9477	9625	45
24	466	9774	9922	0071	0219	0368	0516	0665	0813	0962	60
25	1269	1407	1555	1704	1853	2001	2149	2298	2446	2595	75
26	2743	2892	3040	3188	3337	3485	3634	3782	3930	4079	90
27	4267	4376	4524	4672	4821	4969	5117	5265	5414	5562	105
28	5711	5859	6007	6155	6304	6452	6601	6749	6897	7045	120
29	7194	7342	7490	7639	7787	7935	8083	8232	8380	8528	135
2930	467	8695	8824	8973	9121	9269	9417	9565	9714	9862	150
31	0158	0306	0455	0603	0751	0899	1047	1195	1343	1492	15
32	1640	1788	1935	2084	2232	2380	2528	2676	2824	2973	30
33	3123	3269	3417	3565	3713	3861	4009	4157	4305	4453	45
34	4601	4749	4897	5045	5193	5341	5489	5637	5785	5933	60
35	6081	6229	6377	6525	6673	6821	6969	7117	7265	7413	75
36	7561	7708	7856	8004	8152	8300	8448	8596	8744	8892	90
37	468	9039	9187	9335	9483	9631	9779	9927	0074	0222	105
38	0818	0666	0814	0961	1109	1257	1405	1553	1700	1848	120
39	1995	2144	2291	2439	2587	2735	2882	3030	3178	3326	135
3940	2940	3473	3621	3769	3916	4064	4212	4360	4507	4655	150
41	4730	4878	5026	5174	5321	5469	5617	5765	5913	6061	15
42	6447	6594	6742	6890	7037	7185	7332	7480	7628	7775	30
43	7923	8069	8216	8363	8510	8657	8804	8951	9098	9245	45
44	469	9578	9725	9873	9921	0068	0116	0263	0411	0558	60
45	0853	1000	1148	1295	1443	1590	1738	1885	2033	2180	75
46	2327	2475	2622	2770	2917	3064	3212	3359	3507	3654	90
47	3801	3949	4096	4243	4391	4538	4685	4833	4980	5127	105
48	5425	5572	5719	5866	6013	6160	6307	6454	6601	6748	120
49	6748	6895	7042	7189	7337	7484	7631	7778	7925	8073	135
2950	8220	8367	8515	8662	8809	8956	9103	9251	9398	9545	150
51	470	9642	9789	9936	0083	0230	0377	0524	0671	0818	15
52	1164	1311	1458	1605	1752	1899	2046	2193	2340	2487	30
53	2634	2781	2928	3075	3222	3369	3517	3664	3811	3958	45
54	4105	4252	4399	4546	4693	4840	4987	5134	5281	5428	60
2955	5875	5722	5869	6016	6163	6310	6457	6604	6750	6897	75
56	7044	7191	7338	7485	7632	7779	7926	8073	8219	8366	90
57	8513	8660	8807	8954	9101	9248	9395	9541	9688	9835	105
58	471	9982	0129	0275	0422	0569	0716	0863	1009	1156	120
59	1450	1596	1743	1890	2037	2183	2330	2477	2624	2770	135
2960	2917	3064	3211	3357	3504	3651	3797	3944	4091	4237	150
61	4384	4531	4677	4824	4971	5117	5264	5411	5557	5704	15
62	5881	5997	6144	6290	6437	6584	6730	6877	7023	7170	30
63	7317	7463	7610	7756	7903	8049	8196	8342	8489	8635	45
64	472	8722	8869	9015	9162	9308	9455	9601	9748	9895	60
2965	0247	0393	0540	0686	0833	0979	1125	1272	1419	1566	75
66	1711	1858	2004	2151	2297	2444	2590	2736	2883	3029	90
67	3175	3322	3468	3615	3761	3907	4054	4200	4346	4493	105
68	4639	4785	4932	5078	5224	5371	5517	5663	5809	5955	120
69	6102	6248	6395	6541	6687	6833	6980	7126	7272	7418	135
2970	7564	7711	7857	8003	8149	8295	8442	8588	8734	8880	150
71	473	9007	9153	9300	9446	9592	9739	9885	0032	0178	15
72	0488	0634	0780	0926	1073	1219	1365	1511	1657	1803	30
73	1949	2095	2241	2387	2533	2679	2825	2972	3118	3264	45
74	3410	3556	3702	3848	3994	4140	4286	4432	4578	4724	60
2975	4870	5016	5162	5308	5454	5600	5746	5892	6037	6183	75
76	6475	6621	6767	6913	7059	7205	7351	7497	7643	7789	90
77	7768	7914	8060	8206	8352	8498	8644	8790	8936	9082	105
78	474	9363	9509	9654	9800	9946	0092	0238	0384	0530	120
79	0705	0851	0997	1142	1288	1434	1580	1725	1871	2017	135
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81		3690	3765	3911	4057	4202	4348	4494	4639	4785	4931
82		5076	5222	5368	5515	5660	5805	5950	6096	6241	6387
83		6533	6678	6824	6969	7115	7260	7405	7550	7697	7843
84		7988	8134	8279	8425	8570	8716	8861	9007	9152	9298
2985	476	9443	9589	9734	9880	10025	0171	0316	0462	0607	0753
86		0858	1043	1189	1334	1480	1625	1771	1916	2061	2207
87		2352	2498	2643	2788	2934	3079	3225	3370	3515	3661
88		3805	3951	4097	4242	4387	4533	4678	4823	4969	5114
89		5259	5404	5550	5695	5840	5986	6131	6276	6421	6567
2990		6712	6857	7002	7148	7293	7438	7583	7729	7874	8019
91		8164	8309	8455	8600	8745	8890	9035	9180	9325	9471
92	476	9616	9761	9906	10051	10196	10342	10487	10632	10777	10922
93		1067	1212	1357	1502	1648	1793	1938	2083	2228	2373
94		2518	2663	2808	2953	3098	3243	3388	3533	3678	3823
2995		3968	4113	4258	4403	4548	4693	4838	4983	5128	5273
96		5418	5563	5708	5853	5998	6143	6288	6433	6578	6723
97		6867	7012	7157	7302	7447	7592	7737	7882	8027	8171
98		8316	8461	8606	8751	8896	9041	9186	9331	9476	9620
99	477	9765	9909	10054	10199	10344	10489	10633	10778	10923	11068
3000		1213	1357	1502	1647	1792	1936	2081	2225	2370	2515
01		2660	2805	2949	3094	3239	3383	3528	3673	3818	3962
02		4107	4252	4396	4541	4686	4830	4975	5119	5264	5409
03		5553	5698	5843	5987	6132	6276	6421	6566	6710	6855
04		6999	7144	7288	7433	7578	7722	7867	8011	8156	8300
3005		8445	8589	8734	8878	9023	9167	9312	9456	9601	9745
06	478	9890	10034	10179	10323	10468	10612	10757	10901	11045	11190
07		1334	1479	1623	1768	1912	2056	2201	2345	2490	2634
08		2778	2923	3067	3211	3355	3500	3644	3788	3933	4078
09		4222	4366	4511	4655	4799	4943	5088	5232	5376	5521
3010		5665	5809	5954	6098	6242	6386	6531	6675	6819	6963
11		7108	7252	7396	7540	7684	7829	7973	8117	8261	8405
12		8550	8694	8838	8982	9126	9271	9415	9559	9703	9847
13	479	9991	10135	10279	10423	10568	10712	10856	10999	11144	11288
14		1432	1577	1721	1865	2009	2153	2297	2441	2585	2729
3015		2873	3017	3161	3305	3449	3593	3737	3881	4025	4169
16		4313	4457	4601	4745	4889	5033	5177	5321	5465	5609
17		5753	5897	6041	6185	6329	6473	6617	6761	6905	7048
18		7192	7336	7480	7624	7768	7912	8056	8200	8344	8487
19		8631	8775	8919	9063	9207	9350	9494	9638	9782	9926
3020	480	10069	10213	10357	10501	10645	10788	10932	11076	11220	11363
21		1507	1651	1795	1939	2083	2226	2370	2513	2657	2801
22		2945	3088	3232	3376	3519	3663	3807	3950	4094	4238
23		4381	4525	4669	4812	4956	5100	5243	5387	5531	5674
24		5818	5961	6105	6249	6392	6536	6679	6823	6967	7110
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26		8689	8833	8976	9120	9263	9407	9550	9694	9837	9981
27	481	10124	10268	10411	10555	10698	10842	10985	11128	11272	11415
28		1559	1702	1846	1989	2132	2275	2419	2563	2706	2849
29		2993	3136	3279	3423	3566	3710	3853	3996	4140	4283
3030		4426	4570	4713	4856	5000	5143	5286	5429	5573	5716
31		5859	6003	6146	6289	6432	6575	6719	6862	7005	7149
32		7292	7435	7578	7721	7865	8008	8151	8295	8438	8581
33	482	8724	8867	9010	9154	9297	9440	9583	9726	9869	10013
34		10156	10299	10442	10585	10728	10871	11015	11158	11301	11444
3035		1587	1730	1873	2016	2159	2302	2445	2589	2732	2875
36		3018	3161	3304	3447	3590	3733	3876	4019	4162	4305
37		4448	4591	4734	4877	5020	5163	5306	5449	5592	5735
38		5878	6021	6164	6307	6449	6592	6735	6878	7021	7164
39		7307	7450	7593	7736	7879	8021	8164	8307	8450	8593
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43	3020	3162	3305	3448	3590	3733	3876	4018	4161	4304	3 43
44	4446	4589	4732	4874	5017	5160	5302	5445	5588	5730	4 57
3045	5873	6016	6158	6301	6443	6586	6729	6871	7014	7156	5 72
46	7299	7442	7584	7727	7869	8012	8154	8297	8439	8582	6 86
47	481 8725	8867	9010	9152	9295	9437	9580	9722	9865	0007	7 100
48	0150	0292	0435	0577	0720	0862	1004	1147	1289	1432	8 114
49	1574	1717	1859	2002	2144	2286	2429	2571	2714	2856	9 129
3050	2998	3141	3283	3426	3568	3710	3853	3995	4137	4280	
51	4422	4564	4707	4849	4991	5134	5276	5418	5561	5703	
52	5845	5988	6130	6272	6414	6557	6699	6841	6984	7126	
53	7268	7410	7553	7695	7837	7979	8121	8264	8406	8548	
54	8690	8833	8975	9117	9259	9401	9543	9686	9828	9970	
3055	481 0112	0254	0396	0539	0681	0823	0965	1107	1249	1391	
56	1533	1676	1818	1960	2102	2244	2386	2528	2670	2812	
57	2954	3096	3239	3381	3523	3665	3807	3949	4091	4233	
58	4375	4517	4659	4801	4943	5085	5227	5369	5511	5653	
59	5795	5937	6079	6221	6363	6505	6647	6789	6930	7072	142
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61	8633	8775	8917	9059	9201	9343	9484	9626	9768	9910	2 28
62	481 0052	0194	0336	0477	0619	0761	0903	1045	1186	1328	3 43
63	1470	1612	1754	1895	2037	2179	2321	2462	2604	2746	4 57
64	2888	3029	3171	3313	3455	3596	3738	3880	4021	4163	5 71
3065	4305	4446	4588	4730	4872	5013	5155	5297	5438	5580	6 86
66	5722	5863	6005	6146	6288	6430	6571	6713	6854	6996	7 100
67	7138	7279	7421	7563	7704	7846	7987	8129	8270	8412	8 114
68	8554	8695	8837	8978	9120	9261	9403	9544	9686	9827	9 129
69	481 9969	0110	0252	0393	0535	0676	0818	0959	1101	1242	
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71	2798	2940	3081	3222	3364	3505	3647	3788	3929	4071	
72	4212	4353	4495	4636	4778	4919	5060	5202	5343	5484	
73	5626	5767	5908	6050	6191	6332	6473	6615	6756	6897	
74	7039	7180	7321	7462	7604	7745	7886	8027	8169	8310	
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3075	481 9863	0004	0145	0287	0428	0569	0710	0852	0993	1134	
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77	2686	2827	2968	3109	3251	3392	3533	3674	3815	3956	
78	4097	4238	4379	4520	4661	4802	4943	5084	5225	5366	141
79											1 14
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81	6917	7058	7199	7340	7481	7622	7763	7904	8045	8186	3 42
82	8325	8467	8608	8749	8890	9031	9172	9313	9454	9595	4 56
83	481 9735	9876	0017	0158	0299	0440	0580	0721	0862	1003	5 71
84	1144	1285	1426	1566	1707	1848	1989	2129	2270	2411	6 85
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86	3959	4100	4241	4381	4522	4663	4804	4944	5085	5226	8 113
87	5665	5807	5948	6088	6229	6370	6511	6651	6792	6933	9 127
88	6773	6914	7054	7195	7336	7476	7617	7757	7898	8038	
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92	2395	2535	2676	2816	2957	3097	3238	3378	3518	3659	
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96	8010	8150	8290	8430	8571	8711	8851	8991	9132	9272	
97	481 9412	9552	9693	9833	9973	0113	0253	0394	0534	0674	
98	0814	0954	1094	1235	1375	1515	1655	1795	1936	2076	
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03		7818	7958	8098	8238	8378	8517	8657	8797	8937	9077	
04	492	9217	9357	9497	9637	9777	9917	0057	0196	0336	0476	140
3105		0516	0756	0896	1036	1176	1315	1455	1595	1735	1875	1 14
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08		4810	4950	5090	5229	5369	5509	5648	5788	5928	6068	4 14
09		6207	6347	6487	6626	6766	6906	7045	7185	7325	7464	5 14
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12		0396	0536	0675	0815	0954	1094	1233	1373	1512	1652	8 14
13		1791	1931	2070	2210	2349	2489	2628	2768	2907	3047	9 14
14		3186	3326	3465	3604	3744	3883	4023	4162	4302	4441	
3115		4581	4720	4859	4999	5138	5278	5417	5556	5696	5835	
16		5974	6114	6253	6393	6532	6671	6811	6950	7089	7229	
17		7368	7507	7647	7786	7925	8065	8204	8343	8483	8622	
18		8761	8900	9040	9179	9318	9457	9597	9736	9875	0015	
19	494	0154	0293	0432	0571	0711	0850	0989	1128	1268	1407	
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21		2938	3077	3216	3355	3494	3633	3773	3912	4051	4190	
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23		5720	5859	5998	6137	6276	6415	6554	6693	6832	6971	
24		7110	7249	7388	7527	7666	7805	7944	8083	8222	8361	
3125		8500	8639	8778	8917	9056	9195	9334	9473	9612	9751	
26	495	9890	0029	0168	0307	0445	0584	0723	0862	1001	1140	130
27		1279	1418	1557	1696	1834	1973	2112	2251	2390	2529	1 14
28		2667	2806	2945	3084	3223	3362	3500	3639	3778	3917	2 14
29		4056	4194	4333	4472	4611	4750	4888	5027	5166	5305	3 14
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31		6831	6969	7108	7247	7385	7524	7663	7802	7940	8079	5 14
32		8218	8356	8495	8634	8772	8911	9049	9188	9327	9465	6 14
33	496	9604	9743	9881	0020	0158	0297	0436	0574	0713	0851	7 14
34		0990	1128	1267	1406	1544	1683	1821	1960	2098	2237	8 14
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37		6582	6668	6805	6943	7081	7221	7360	7498	7636	7775	
38		7913	8052	8190	8328	8467	8605	8743	8882	9020	9158	
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46	498	8967	9105	9243	9381	9519	9657	9795	9933	0071	0209	7 14
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56		1370	1508	1645	1783	1920	2058	2196	2333	2471	2608	
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58		4121	4259	4396	4534	4671	4809	4946	5084	5221	5359	
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62	500	9519	9756	9893	0031	0168	0305	0443	0580	0717	0855
63		0992	1129	1267	1404	1541	1678	1816	1953	2090	2227
64		2365	2502	2639	2777	2914	3051	3188	3325	3463	3500
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67		7852	7989	8125	8263	8400	8537	8674	8811	8948	9086
68	501	9222	9359	9496	9634	9771	9908	0045	0182	0319	0456
69		0593	0730	0867	1004	1141	1278	1415	1552	1688	1825
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72		4701	4838	4974	5111	5248	5385	5522	5659	5796	5933
73		6069	6206	6343	6480	6617	6753	6890	7027	7164	7301
74		7437	7574	7711	7848	7984	8121	8258	8395	8531	8668
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75		0172	0309	0446	0582	0719	0855	0992	1129	1266	1402
76		1539	1676	1812	1949	2086	2222	2359	2495	2632	2769
77		2905	3042	3178	3315	3452	3588	3725	3861	3998	4135
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82		7002	7138	7275	7411	7548	7684	7821	7957	8093	8230
83		8366	8503	8639	8776	8912	9049	9185	9322	9458	9594
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86		3821	3957	4093	4229	4366	4502	4638	4774	4911	5047
87		5183	5319	5455	5592	5728	5864	6000	6137	6273	6409
88		6545	6681	6818	6954	7090	7226	7362	7498	7635	7771
3190		7907	8043	8179	8315	8451	8587	8724	8860	8996	9132
91	504	9268	9404	9540	9676	9812	9948	0085	0221	0357	0493
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93		1989	2125	2261	2397	2533	2669	2805	2941	3077	3213
94		3349	3485	3621	3757	3893	4029	4165	4301	4437	4573
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95		6068	6204	6339	6475	6611	6747	6883	7019	7155	7291
96		7426	7562	7698	7834	7970	8106	8241	8377	8513	8649
97		8785	8920	9056	9192	9328	9464	9599	9735	9871	1007
98	505	0142	0278	0414	0550	0685	0821	0957	1093	1228	1364
99		1500	1635	1771	1907	2043	2178	2314	2450	2585	2721
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01		4213	4349	4485	4620	4756	4891	5027	5163	5298	5434
02		5569	5705	5841	5976	6112	6247	6383	6518	6654	6790
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04	506	9535	9771	9906	0042	0177	0312	0448	0583	0719	0854
05		0990	1125	1260	1396	1531	1667	1802	1937	2073	2208
06		2344	2479	2614	2750	2885	3020	3156	3291	3426	3562
07		3697	3833	3968	4103	4238	4374	4509	4644	4780	4915
3210		5050	5185	5321	5456	5591	5727	5862	5997	6133	6268
11		6403	6538	6674	6809	6944	7079	7214	7350	7485	7620
12		7755	7891	8026	8161	8296	8431	8567	8702	8837	8972
13	507	9107	9242	9378	9513	9648	9783	9918	0053	0188	0324
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3215		1810	1945	2080	2215	2350	2485	2620	2755	2890	3025
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16		4511	4646	4781	4916	5051	5186	5321	5456	5591	5726
17		5880	5995	6130	6265	6400	6535	6670	6805	6940	7075
18		7210	7345	7480	7614	7749	7884	8019	8154	8289	8424
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23	2503	2738	2873	3007	3142	3277	3411	3546	3681	3816	3 41
24	3960	4085	4220	4354	4489	4624	4758	4893	5028	5163	4 54
3205	5277	5432	5567	5701	5835	5970	6105	6240	6374	6509	5 68
25	6644	6778	6913	7047	7182	7317	7451	7586	7720	7855	6 81
26	7990	8124	8259	8393	8528	8663	8797	8932	9066	9201	7 95
27	9335	9470	9604	9739	9873	0008	0142	0277	0411	0546	8 108
28	509 0680	0815	0949	1084	1218	1353	1487	1622	1756	1891	9 122
29											
3230	2085	2160	2294	2429	2563	2697	2832	2966	3101	3235	
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54	4175	4309	4442	4576	4709	4843	4976	5110	5243	5377	
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55	6844	6977	7111	7244	7377	7511	7644	7778	7911	8044	
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59	3508	3641	3774	3908	4041	4174	4307	4440	4573	4706	
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65	1491	1624	1757	1890	2023	2156	2289	2422	2555	2688	
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72	8133	8266	8398	8531	8664	8797	8929	9062	9195	9327	
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86	7997	8129	8261	8393	8525	8658	8790	8922	9054	9186	
87	9315	9448	9580	9714	9846	9978	0111	0243	0375	0507	
88	517 0639	0771	0903	1035	1167	1299	1431	1563	1695	1827	
89	1959	2091	2223	2355	2487	2619	2751	2883	3015	3147	
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91	4598	4730	4862	4994	5126	5258	5390	5522	5654	5786	
92	5917	6049	6181	6313	6445	6577	6709	6841	6973	7105	
93	7225	7358	7490	7622	7754	7886	8018	8150	8282	8414	
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95	518 1189	1321	1453	1585	1717	1849	1981	2113	2245	2377	
96	2507	2639	2771	2903	3035	3167	3299	3431	3563	3695	
97	3823	3955	4087	4219	4351	4483	4615	4747	4879	5011	
98	519 5139	5271	5403	5535	5667	5799	5931	6063	6195	6327	
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03	1715	1846	1977	2109	2240	2372	2504	2636	2768	2899	
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07	8280	8411	8542	8674	8805	8936	9067	9198	9329	9461	
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16	521 0073	0203	0334	0465	0596	0727	0858	0988	1119	1250	
17	1381	1512	1642	1773	1904	2035	2166	2296	2427	2558	
18	2689	2820	2950	3081	3212	3343	3473	3604	3735	3866	
19	3996	4127	4258	4388	4519	4650	4781	4911	5042	5173	
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21	7916	8047	8178	8308	8439	8570	8700	8831	8961	9092	
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23	0508	0639	0770	0900	1030	1161	1291	1422	1552	1683	
24	1833	1964	2094	2225	2355	2486	2616	2747	2877	3007	
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26	5795	5925	6056	6186	6317	6447	6578	6708	6839	6969	
27	7050	7180	7311	7441	7571	7702	7832	7962	8093	8223	
28	8363	8493	8624	8754	8884	9015	9145	9275	9406	9536	
29	9666	9796	9926	0047	0177	0307	0437	0568	0698	0828	
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31	3562	3692	3822	3952	4082	4213	4343	4473	4603	4733	
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43		1354	1494	1624	1753	1883	2013	2143	2273	2403	3 39
44		2553	2793	2922	3052	3182	3312	3442	3572	3702	4 52
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46		5259	5389	5519	5649	5779	5908	6038	6168	6298	6 78
47		6537	6687	6817	6946	7076	7205	7335	7465	7595	7 91
48		7854	7984	8114	8244	8373	8503	8633	8762	8892	8 104
49	505	9151	9281	9411	9540	9670	9800	9929	0059	0189	9 117
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51		1744	1874	2003	2133	2263	2392	2522	2651	2781	2 211
52		3040	3170	3299	3429	3558	3688	3817	3947	4076	3 420
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57	506	9513	9643	9772	9902	0031	0160	0290	0419	0548	8 068
58		0807	0936	1066	1195	1324	1454	1583	1712	1841	9 197
59		2100	2229	2359	2488	2617	2746	2876	3005	3134	3264
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66		1141	1270	1399	1528	1657	1786	1915	2044	2173	2 2302
67		2431	2560	2689	2818	2947	3076	3205	3334	3463	3 352
68		3721	3850	3979	4108	4237	4366	4494	4623	4752	4 481
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92		4558	4686	4814	4943	5071	5199	5327	5455	5583	5 7111
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03	8619	8747	8875	9002	9130	9258	9385	9513	9640	9768	
04	531 9896	0023	0151	0278	0406	0533	0661	0789	0916	1044	
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23	4069	4196	4323	4450	4576	4703	4830	4957	5084	5211	
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33	6758	6885	6991	7118	7244	7371	7497	7623	7750	7876	
34	8003	8129	8256	8382	8509	8635	8762	8888	9015	9141	
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37	1795	1922	2048	2174	2301	2427	2553	2680	2806	2932	
38	3059	3185	3311	3438	3564	3690	3817	3943	4069	4195	
39	4322	4448	4574	4701	4827	4953	5079	5205	5332	5458	
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47	4413	4539	4665	4791	4917	5043	5169	5295	5421	5547	
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53	1966	2092	2217	2343	2469	2595	2720	2846	2972	3098	
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57	6994	7119	7245	7371	7496	7622	7747	7873	7999	8124	
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62	3391	3536	3686	3841	3994	4146	4297	4447	4596	4744	25
63	4855	4994	5138	5287	5434	5580	5725	5869	6012	6154	38
64	6297	6435	6573	6711	6848	6984	7119	7253	7386	7518	50
3465	7652	7783	7913	8042	8170	8297	8423	8548	8672	8795	63
65	8918	9041	9163	9284	9404	9523	9641	9758	9874	9989	75
66	1005	1119	1232	1344	1455	1565	1674	1782	1889	1995	88
67	2099	2204	2308	2411	2513	2614	2714	2813	2911	3008	100
68	3104	3200	3295	3389	3482	3574	3665	3755	3844	3932	113
69	4019	4105	4190	4274	4357	4439	4520	4600	4679	4756	
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71	5548	5615	5681	5746	5810	5873	5935	5996	6057	6117	
72	6176	6235	6293	6350	6406	6461	6515	6568	6621	6673	
73	6725	6777	6828	6878	6927	6975	7022	7068	7114	7159	
74	7203	7247	7290	7332	7373	7413	7452	7490	7527	7563	
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75	7905	7932	7958	7983	8008	8032	8055	8078	8100	8122	
76	8144	8165	8185	8205	8224	8243	8261	8279	8296	8313	
77	8330	8347	8363	8379	8394	8409	8424	8438	8452	8466	
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79	8608	8620	8632	8644	8655	8666	8677	8688	8698	8709	
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82	8894	8902	8910	8918	8926	8934	8941	8949	8956	8964	
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85	9161	9166	9171	9176	9181	9186	9191	9196	9201	9206	
86	9211	9216	9221	9226	9231	9236	9241	9246	9251	9256	
87	9261	9266	9271	9276	9281	9286	9291	9296	9301	9306	
88	9311	9316	9321	9326	9331	9336	9341	9346	9351	9356	
89	9361	9366	9371	9376	9381	9386	9391	9396	9401	9406	
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96	9761	9766	9771	9776	9781	9786	9791	9796	9801	9806	
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3800	5994	6007	6020	6033	6046	6059	6072	6085	6098	6111	123
3810	6007	6020	6033	6046	6059	6072	6085	6098	6111	6124	123
3820	6020	6033	6046	6059	6072	6085	6098	6111	6124	6137	123
3830	6033	6046	6059	6072	6085	6098	6111	6124	6137	6150	123
3840	6046	6059	6072	6085	6098	6111	6124	6137	6150	6163	123
3850	6059	6072	6085	6098	6111	6124	6137	6150	6163	6176	123
3860	6072	6085	6098	6111	6124	6137	6150	6163	6176	6189	123
3870	6085	6098	6111	6124	6137	6150	6163	6176	6189	6202	123
3880	6098	6111	6124	6137	6150	6163	6176	6189	6202	6215	123
3890	6111	6124	6137	6150	6163	6176	6189	6202	6215	6228	123
3900	6124	6137	6150	6163	6176	6189	6202	6215	6228	6241	123
3910	6137	6150	6163	6176	6189	6202	6215	6228	6241	6254	123
3920	6150	6163	6176	6189	6202	6215	6228	6241	6254	6267	123
3930	6163	6176	6189	6202	6215	6228	6241	6254	6267	6280	123
3940	6176	6189	6202	6215	6228	6241	6254	6267	6280	6293	123
3950	6189	6202	6215	6228	6241	6254	6267	6280	6293	6306	123
3960	6202	6215	6228	6241	6254	6267	6280	6293	6306	6319	123
3970	6215	6228	6241	6254	6267	6280	6293	6306	6319	6332	123
3980	6228	6241	6254	6267	6280	6293	6306	6319	6332	6345	123
3990	6241	6254	6267	6280	6293	6306	6319	6332	6345	6358	123
4000	6254	6267	6280	6293	6306	6319	6332	6345	6358	6371	123

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81	554	0043	0164	0286	0407	0528	0650	0771	0892	1013	1135
82		1256	1377	1498	1620	1741	1862	1983	2104	2225	2347
83		2468	2589	2710	2832	2953	3074	3195	3316	3438	3559
84		3680	3801	3922	4044	4165	4286	4407	4528	4649	4770
3585		4892	5013	5134	5255	5376	5497	5618	5740	5861	5982
86		6103	6224	6345	6466	6587	6708	6829	6951	7072	7193
87		7314	7435	7556	7677	7798	7919	8040	8161	8282	8403
88		8524	8645	8766	8887	9008	9129	9251	9372	9493	9614
89	555	9735	9856	9977	0098	0219	0340	0461	0582	0703	0824
3590		0944	1065	1186	1307	1428	1549	1670	1791	1912	2033
91		2154	2275	2396	2517	2638	2759	2880	3001	3121	3242
92		3353	3474	3595	3716	3837	3958	4079	4200	4321	4442
93		4572	4693	4814	4935	5056	5177	5297	5418	5539	5660
94		5781	5902	6022	6143	6264	6385	6506	6627	6747	6868
3595		6989	7110	7231	7351	7472	7593	7714	7835	7955	8076
96		8197	8318	8438	8559	8680	8801	8921	9042	9163	9284
97	556	9404	9525	9646	9767	9887	0008	0129	0249	0370	0491
98		0512	0632	0753	0874	0994	1215	1336	1456	1577	1698
99		1818	1939	2060	2180	2301	2422	2542	2663	2784	2904
3600		3025	3146	3266	3387	3508	3628	3749	3869	3990	4111
01		4231	4352	4472	4593	4714	4834	4955	5075	5196	5317
02		5437	5558	5678	5799	5919	6040	6160	6281	6402	6522
03		6643	6763	6884	7004	7125	7245	7366	7486	7607	7727
04		7848	7968	8089	8209	8330	8450	8571	8691	8812	8932
3605	557	9053	9173	9294	9414	9535	9655	9775	9896	0016	0137
05		0257	0378	0498	0619	0739	0859	0980	1100	1221	1341
07		1461	1582	1702	1823	1943	2063	2184	2304	2425	2545
08		2665	2785	2906	3026	3147	3267	3387	3508	3628	3748
09		3869	3989	4109	4230	4350	4470	4591	4711	4831	4952
3610		5072	5192	5313	5433	5553	5673	5794	5914	6034	6155
11		6275	6395	6516	6636	6756	6876	6996	7117	7237	7357
12		7477	7598	7718	7838	7958	8078	8199	8319	8439	8559
13		8680	8800	8920	9040	9160	9281	9401	9521	9641	9761
14	558	9881	0002	0122	0242	0362	0482	0602	0723	0843	0963
3615		1083	1203	1323	1443	1564	1684	1804	1924	2044	2164
16		2284	2404	2524	2645	2765	2885	3005	3125	3245	3365
17		3485	3605	3725	3845	3965	4085	4205	4325	4445	4566
18		4686	4806	4926	5046	5166	5286	5406	5526	5646	5766
19		5886	6006	6126	6246	6366	6486	6606	6726	6846	6966
3620		7086	7206	7326	7446	7566	7686	7806	7926	8046	8166
21		8285	8405	8525	8645	8765	8885	9005	9125	9245	9365
22	559	9484	9604	9724	9844	9964	0084	0204	0324	0444	0563
23		0683	0803	0923	1043	1163	1283	1403	1522	1642	1762
24		1882	2002	2122	2241	2361	2481	2601	2721	2840	2960
3625		3080	3200	3320	3440	3560	3679	3799	3919	4038	4158
26		4278	4398	4518	4637	4757	4877	4997	5116	5236	5356
27		5475	5595	5715	5835	5954	6074	6194	6314	6433	6553
28		6672	6792	6912	7032	7152	7271	7391	7511	7630	7750
29		7870	7990	8109	8229	8348	8468	8588	8707	8827	8947
3630	560	9066	9186	9306	9425	9545	9664	9784	9904	0023	0143
31		0262	0382	0502	0621	0741	0860	0980	1100	1219	1339
32		1458	1578	1698	1817	1937	2056	2176	2295	2415	2534
33		2654	2774	2893	3013	3132	2230	3371	3491	3610	3730
34		3849	3969	4088	4208	4327	4447	4566	4686	4805	4925
3635		5044	5164	5283	5403	5522	5641	5761	5880	6000	6119
36		6239	6358	6478	6597	6716	6836	6955	7075	7194	7314
37		7433	7552	7672	7791	7911	8030	8149	8269	8388	8508
38		8627	8746	8866	8985	9104	9224	9343	9463	9582	9701
39	561	9821	9940	0059	0179	0298	0417	0537	0656	0775	0895
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3640	561 1014	1133	1252	1372	1491	1610	1730	1849	1968	2088	
41	2207	2326	2445	2565	2684	2803	2922	3041	3161	3280	
42	3399	3519	3638	3757	3876	3996	4115	4234	4353	4472	
43	4592	4711	4830	4949	5069	5188	5307	5426	5545	5665	
44	5784	5903	6022	6141	6260	6380	6499	6618	6737	6856	
3645	6975	7094	7213	7333	7452	7571	7690	7809	7928	8048	
46	8167	8286	8405	8524	8643	8762	8881	9000	9119	9239	
47	562 9358	9477	9596	9715	9834	9953	10072	10191	10310	10429	
48	10548	10667	10786	10905	11024	11144	11263	11382	11501	11620	
49	11739	11858	11977	12096	12215	12334	12453	12572	12691	12810	
3650	9989	3048	3167	3285	3405	3524	3642	3761	3880	3999	
51	4118	4237	4356	4475	4594	4713	4832	4951	5070	5189	
52	5308	5427	5546	5664	5783	5902	6021	6140	6259	6378	
53	6497	6616	6734	6853	6972	7091	7210	7329	7448	7567	
54	7685	7804	7923	8042	8161	8280	8398	8517	8636	8755	
3655	563 8874	8993	9111	9230	9349	9468	9587	9705	9824	9943	
56	10062	10181	10299	10418	10537	10656	10775	10893	11012	11131	
57	11250	11369	11487	11606	11725	11843	11962	12081	12200	12318	
58	12437	12556	12674	12793	12912	13031	13149	13268	13387	13505	
59	13624	13743	13861	13980	14099	14218	14336	14455	14574	14692	
3660	4811	4930	5048	5167	5285	5404	5523	5641	5760	5879	
61	5997	6116	6235	6353	6472	6591	6709	6828	6946	7065	
62	7183	7302	7421	7539	7658	7777	7895	8013	8132	8251	
63	8369	8488	8606	8725	8843	8962	9081	9199	9318	9436	
64	564 9555	9673	9792	9910	10029	10147	10266	10384	10503	10621	
3665	10740	10858	10977	11095	11214	11332	11451	11569	11688	11806	
66	11925	12043	12162	12280	12399	12517	12635	12754	12872	12991	
67	13109	13228	13346	13465	13583	13701	13820	13938	14056	14175	
68	14293	14411	14530	14648	14767	14885	15004	15122	15240	15359	
69	5477 15545	15663	15781	15899	16018	16136	16254	16373	16491	16610	
3670	6661	6779	6897	7016	7134	7252	7371	7489	7607	7726	
71	7844	7962	8080	8199	8317	8435	8554	8672	8790	8908	
72	565 9087	9205	9323	9441	9559	9678	9796	9914	10032	10150	
73	10269	10387	10505	10623	10741	10859	10977	11095	11213	11331	
74	11449	11567	11685	11803	11921	12039	12157	12275	12393	12511	
3675	12629	12747	12865	12983	13101	13219	13337	13455	13573	13691	
76	13809	13927	14045	14163	14281	14399	14517	14635	14753	14871	
77	15049	15167	15285	15403	15521	15639	15757	15875	15993	16111	
78	16291	16409	16527	16645	16763	16881	16999	17117	17235	17353	
79	7228 17471	17589	17707	17825	17943	18061	18179	18297	18415	18533	
3680	8478	8596	8714	8832	8950	9068	9186	9304	9422	9540	
81	566 9658	9776	9894	10012	10130	10248	10366	10484	10602	10720	
82	10838	10956	11074	11192	11310	11428	11546	11664	11782	11900	
83	12017	12135	12253	12371	12489	12607	12725	12843	12961	13079	
84	3196 13196	13314	13432	13550	13668	13786	13904	14022	14140	14258	
3685	4375	4493	4611	4729	4847	4965	5083	5201	5319	5437	
86	5553	5671	5789	5907	6025	6143	6261	6379	6497	6615	
87	6731	6849	6967	7085	7203	7321	7439	7557	7675	7793	
88	7971	8089	8207	8325	8443	8561	8679	8797	8915	9033	
89	567 9251	9369	9487	9605	9723	9841	9959	10077	10195	10313	
3690	10431	10549	10667	10785	10903	11021	11139	11257	11375	11493	
91	11611	11729	11847	11965	12083	12201	12319	12437	12555	12673	
92	12791	12909	13027	13145	13263	13381	13499	13617	13735	13853	
93	13971	14089	14207	14325	14443	14561	14679	14797	14915	15033	
94	15151	15269	15387	15505	15623	15741	15859	15977	16095	16213	
3695	16331	16449	16567	16685	16803	16921	17039	17157	17275	17393	
96	17511	17629	17747	17865	17983	18101	18219	18337	18455	18573	
97	18691	18809	18927	19045	19163	19281	19399	19517	19635	19753	
98	19871	19989	20107	20225	20343	20461	20579	20697	20815	20933	
99	568 21051	21169	21287	21405	21523	21641	21759	21877	21995	22113	
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01		3191	3308	3426	3543	3660	3778	3895	4012	4130	
02		4364	4481	4599	4716	4833	4951	5068	5185	5302	
03		5537	5654	5772	5889	6006	6123	6241	6358	6475	
04		6710	6827	6944	7062	7179	7296	7413	7530	7648	
3705		7882	7999	8117	8234	8351	8468	8585	8703	8820	
05	569	9054	9171	9289	9406	9523	9640	9757	9874	9992	
06		0265	0383	0499	0617	0734	0852	0969	1086	1203	
07		1377	1514	1631	1749	1866	1983	2100	2217	2334	
08		2565	2685	2803	2920	3037	3154	3271	3388	3505	
3710		3739	3856	3973	4090	4207	4324	4441	4558	4675	
11		4910	5027	5144	5261	5378	5495	5612	5729	5846	
12		6080	6197	6314	6431	6548	6665	6782	6899	7016	
13		7249	7366	7483	7600	7717	7834	7951	8068	8185	
14		8419	8536	8653	8770	8887	9004	9121	9237	9354	
3715	570	9588	9705	9822	9939	0056	0173	0290	0406	0523	
15		0767	0884	0991	1108	1225	1341	1458	1575	1692	
16		1905	2042	2159	2276	2393	2510	2627	2743	2860	
17		3094	3211	3327	3444	3561	3678	3795	3911	4028	
18		4202	4319	4436	4553	4670	4786	4903	5020	5137	
3720		5499	5616	5733	5850	5966	6083	6200	6317	6434	
21		6647	6764	6881	6998	7115	7232	7349	7466	7583	
22		7764	7881	7997	8114	8231	8348	8465	8582	8699	
23		8900	9017	9134	9251	9368	9484	9601	9718	9835	
24	571	0097	0213	0330	0447	0563	0680	0797	0913	1030	
3725		1263	1379	1496	1613	1729	1846	1963	2079	2196	
25		2409	2525	2642	2758	2875	3011	3128	3244	3361	
26		3594	3710	3827	3943	4060	4177	4293	4410	4526	
27		4789	4876	4992	5109	5225	5341	5458	5574	5691	
28		5924	6040	6157	6273	6390	6506	6623	6739	6856	
3730		7088	7205	7321	7438	7554	7670	7787	7903	8020	
31		8258	8375	8492	8608	8725	8841	8958	9075	9192	
32		9416	9533	9649	9766	9882	9998	0115	0231	0348	
33	572	0580	0696	0813	0929	1045	1162	1278	1394	1511	
34		1743	1859	1976	2092	2208	2325	2441	2557	2674	
3735		2906	3022	3139	3255	3371	3487	3604	3720	3836	
35		4069	4185	4301	4417	4534	4650	4766	4882	4999	
36		5231	5347	5463	5580	5696	5812	5928	6044	6161	
37		6303	6420	6536	6652	6769	6885	7001	7118	7234	
38		7506	7622	7738	7854	7970	8086	8202	8318	8435	
39		8711	8827	8943	9059	9175	9291	9407	9523	9639	
3740		9874	9990	0106	0222	0338	0454	0570	0686	0802	
41	573	1038	1154	1270	1386	1502	1618	1734	1850	1966	
42		2198	2314	2430	2546	2662	2778	2894	3010	3126	
43		3388	3474	3590	3706	3822	3938	4054	4170	4286	
44		4518	4634	4750	4866	4982	5098	5214	5330	5446	
3745		5678	5794	5910	6026	6141	6257	6373	6489	6605	
46		6837	6953	7069	7185	7301	7417	7533	7649	7765	
47		7995	8111	8227	8343	8459	8575	8691	8807	8923	
48		9154	9270	9386	9502	9618	9734	9849	9965	0081	
3750	574	0313	0429	0544	0660	0776	0892	1007	1123	1239	
49		1471	1586	1702	1818	1934	2050	2165	2281	2397	
51		2628	2744	2860	2976	3091	3207	3323	3438	3554	
52		3785	3901	4017	4133	4248	4364	4480	4596	4712	
53		4943	5058	5174	5290	5405	5521	5637	5752	5868	
3755		6099	6215	6331	6446	6562	6678	6793	6909	7025	
54		7286	7371	7487	7603	7718	7834	7950	8065	8181	
55		8412	8528	8643	8759	8874	8990	9105	9221	9337	
56		9508	9623	9739	9854	9969	0146	0261	0377	0492	
57	575	0723	0839	0954	1070	1185	1301	1416	1532	1647	
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3760	576	1878	1994	2109	2225	2340	2455	2571	2687	2802	2918
61		3035	3149	3264	3380	3495	3611	3726	3842	3957	4072
62		4188	4303	4419	4534	4650	4765	4881	4996	5111	5227
63		5348	5468	5573	5688	5804	5919	6035	6150	6265	6381
64		6496	6612	6727	6842	6958	7073	7188	7304	7419	7534
3765		7650	7765	7881	7996	8111	8227	8342	8457	8573	8688
65		8803	8918	9034	9149	9264	9380	9495	9610	9726	9841
67	576	9956	0071	0187	0302	0417	0533	0648	0763	0878	0994
68		1109	1224	1339	1455	1570	1685	1800	1916	2031	2146
69		2261	2377	2492	2607	2722	2837	2953	3068	3183	3298
3770		3414	3529	3644	3759	3874	3989	4105	4220	4336	4450
71		4565	4680	4796	4911	5026	5141	5256	5371	5487	5602
72		5717	5832	5947	6062	6177	6292	6408	6523	6638	6753
73		6868	6983	7098	7213	7328	7444	7559	7674	7789	7904
74		8019	8134	8249	8364	8479	8594	8709	8824	8939	9054
3775	577	9170	9285	9400	9515	9630	9745	9860	9975	0090	0205
75		0320	0435	0550	0665	0780	0895	1010	1125	1240	1355
77		1470	1585	1700	1815	1930	2045	2160	2275	2390	2505
78		2620	2734	2849	2964	3079	3194	3309	3424	3539	3654
79		3769	3884	3999	4114	4229	4343	4458	4573	4688	4803
3780		4918	5033	5148	5263	5378	5492	5607	5722	5837	5952
81		6067	6182	6296	6411	6526	6641	6756	6871	6986	7100
82		7215	7330	7445	7560	7675	7789	7904	8019	8134	8249
83		8363	8478	8593	8708	8823	8937	9052	9167	9282	9397
84	578	9511	9626	9741	9856	9970	0085	0200	0315	0429	0544
3785		0659	0774	0888	1003	1118	1233	1347	1462	1577	1691
85		1806	1921	2036	2150	2265	2380	2494	2609	2724	2838
87		2953	3068	3182	3297	3412	3526	3641	3756	3870	3985
88		4100	4214	4329	4444	4558	4673	4788	4902	5017	5131
89		5246	5361	5475	5590	5705	5819	5934	6048	6163	6278
3790		6392	6507	6621	6736	6850	6965	7080	7194	7309	7423
91		7538	7652	7767	7882	7996	8111	8225	8340	8454	8569
92		8683	8798	8912	9027	9141	9256	9370	9485	9599	9714
93	579	9828	9943	0057	0172	0286	0401	0515	0630	0744	0859
94		0973	1088	1202	1317	1431	1546	1660	1774	1889	2003
3795		2118	2232	2347	2461	2576	2690	2804	2919	3033	3148
95		3262	3376	3491	3605	3720	3834	3948	4063	4177	4291
97		4406	4520	4635	4749	4863	4978	5092	5207	5321	5435
98		5580	5694	5808	5923	6037	6151	6266	6380	6494	6609
99		6723	6837	6951	7066	7180	7294	7409	7523	7637	7752
3800		7856	7969	8083	8197	8310	8424	8538	8652	8766	8880
01	580	8979	9093	9207	9321	9435	9549	9663	9777	9891	0005
02		0121	0235	0349	0463	0578	0692	0806	0921	1035	1149
03		1263	1377	1491	1605	1720	1834	1948	2063	2177	2291
04		2405	2519	2633	2748	2862	2976	3090	3204	3318	3432
3805		3547	3661	3775	3889	4003	4117	4231	4346	4460	4574
05		4688	4802	4916	5030	5144	5258	5372	5487	5601	5715
07		5829	5943	6057	6171	6285	6399	6513	6627	6741	6855
08		6965	7083	7197	7312	7426	7540	7654	7768	7882	7996
09		8110	8224	8338	8452	8566	8680	8794	8908	9022	9136
3810	581	9250	9364	9478	9592	9706	9820	9934	0048	0162	0276
11		0389	0503	0617	0731	0845	0959	1073	1187	1301	1415
12		1529	1643	1757	1871	1985	2099	2213	2327	2440	2554
13		2668	2782	2896	3010	3124	3238	3352	3466	3579	3693
14		3807	3921	4035	4149	4263	4377	4490	4604	4718	4832
3815		4945	5059	5173	5287	5401	5515	5629	5743	5856	5970
15		6084	6197	6311	6425	6539	6653	6766	6880	6994	7108
17		7220	7335	7449	7563	7677	7790	7904	8018	8132	8245
18		8355	8473	8587	8700	8814	8928	9042	9155	9269	9383
19	582	9497	9610	9724	9838	9951	0065	0179	0293	0406	0520
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02		2927	3040	3154	3268	3381	3495	3608	3720	3831	3943
03		4053	4167	4280	4394	4507	4619	4731	4843	4954	5065
04		5179	5292	5405	5518	5630	5742	5854	5965	6076	6187
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05		7450	7563	7677	7790	7904	8017	8131	8244	8358	8471
06		8585	8698	8812	8925	9039	9152	9265	9379	9492	9605
07	883	9719	9833	9946	0050	0173	0287	0400	0513	0627	0740
08		0854	0967	1081	1194	1307	1421	1534	1648	1761	1874
3810		1988	2101	2215	2328	2441	2555	2668	2781	2895	3008
09		3122	3235	3348	3462	3575	3688	3802	3915	4028	4142
10		4255	4368	4482	4595	4708	4821	4935	5048	5162	5275
11		5388	5501	5615	5728	5841	5955	6068	6181	6295	6408
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13		8786	8899	9012	9125	9238	9351	9465	9578	9691	9805
14	884	9918	0031	0144	0258	0371	0484	0597	0710	0823	0937
15		1050	1163	1276	1389	1502	1615	1729	1842	1955	2068
16		2181	2294	2407	2520	2634	2747	2860	2973	3086	3199
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17		4443	4556	4669	4782	4895	5008	5121	5234	5348	5461
18		5574	5687	5800	5913	6026	6139	6252	6365	6478	6591
19		6704	6817	6930	7043	7156	7269	7382	7495	7608	7721
20		7834	7947	8060	8173	8286	8399	8512	8625	8738	8851
3825		8963	9076	9189	9302	9415	9528	9641	9754	9867	9980
21	885	0093	0206	0319	0432	0544	0657	0770	0883	0996	1109
22		1222	1335	1448	1561	1673	1786	1899	2012	2125	2238
23		2351	2463	2576	2689	2802	2915	3028	3141	3254	3367
24		3479	3592	3705	3818	3931	4044	4157	4270	4383	4496
3830		4607	4720	4833	4946	5058	5171	5284	5397	5510	5623
25		5735	5848	5961	6073	6186	6299	6412	6525	6638	6751
26		6863	6976	7088	7201	7314	7427	7539	7652	7765	7878
27		7990	8103	8216	8328	8441	8554	8666	8779	8892	9005
28	886	9117	9230	9342	9455	9568	9681	9793	9906	0019	0131
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29		1370	1483	1596	1708	1821	1933	2046	2159	2271	2384
30		2496	2609	2722	2834	2947	3059	3172	3285	3397	3510
31		3622	3735	3847	3959	4072	4185	4298	4410	4523	4635
32		4748	4860	4973	5085	5198	5310	5423	5535	5648	5761
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33		6998	7110	7223	7335	7448	7560	7673	7785	7898	8010
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35	887	9247	9360	9472	9584	9697	9809	9922	0034	0146	0259
36		0371	0484	0596	0708	0821	0933	1045	1158	1270	1383
3845		1495	1607	1720	1832	1944	2057	2169	2281	2394	2506
37		2618	2731	2843	2955	3068	3180	3292	3405	3517	3630
38		3742	3854	3966	4079	4191	4303	4416	4528	4640	4752
39		4865	4977	5089	5201	5314	5426	5538	5651	5763	5875
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41		8232	8344	8456	8568	8680	8793	8905	9017	9129	9241
42	888	9363	9465	9578	9690	9802	9914	0026	0139	0251	0363
43		0475	0587	0699	0811	0923	1036	1148	1260	1372	1484
44		1596	1708	1820	1932	2045	2157	2269	2381	2493	2605
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45		3838	3950	4062	4174	4286	4398	4510	4622	4734	4846
46		4958	5070	5182	5294	5406	5518	5630	5742	5854	5966
47		6078	6190	6302	6414	6526	6638	6750	6862	6974	7086
48		7198	7310	7422	7534	7646	7758	7870	7981	8093	8205
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82		0555	0667	0779	0891	1003	1115	1227	1338	1450	22
83		1574	1785	1897	2009	2121	2233	2345	2457	2569	33
84		2692	2904	3016	3128	3240	3351	3463	3575	3687	44
3885		3910	4022	4134	4246	4357	4469	4581	4693	4804	56
85		5028	5140	5251	5363	5475	5587	5698	5810	5922	66
86		6145	6257	6369	6481	6592	6704	6815	6927	7039	77
87		7263	7374	7486	7598	7709	7821	7933	8044	8156	86
88		8379	8491	8603	8714	8826	8938	9049	9161	9273	91
89											101
3890	519	9496	9608	9719	9831	9943	0054	0166	0277	0389	
91		0512	0724	0836	0947	1059	1170	1282	1394	1505	
92		1723	1840	1951	2063	2175	2286	2398	2509	2621	
93		2834	2955	3067	3179	3290	3402	3513	3625	3736	
94		3949	4071	4183	4294	4406	4517	4629	4740	4852	
3895		5075	5186	5298	5409	5521	5632	5744	5855	5967	
95		6139	6301	6412	6524	6635	6747	6858	6970	7081	
96		7204	7415	7527	7638	7750	7861	7973	8084	8196	
97		8318	8529	8641	8753	8864	8975	9087	9198	9310	
98		9532	9644	9755	9866	9978	0089	0201	0312	0424	
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01		1750	1871	1982	2093	2205	2316	2427	2538	2650	
02		2873	2984	3095	3207	3318	3429	3540	3652	3763	
03		3986	4097	4208	4319	4431	4542	4653	4764	4875	
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05		7212	7324	7435	7546	7657	7768	7879	7991	8102	
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07		9216	9327	9438	9549	9660	9771	9882	9993	0104	
08	513										
09		0557	0768	0879	0990	1101	1212	1323	1434	1545	
3910		1758	1879	1990	2101	2212	2323	2434	2545	2656	
11		2878	2999	3110	3221	3332	3443	3554	3665	3776	
12		3988	4099	4210	4321	4432	4543	4654	4765	4876	
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3915		7318	7429	7540	7651	7762	7873	7984	8095	8206	
15		8427	8538	8649	8760	8871	8982	9093	9204	9315	
16		9536	9647	9758	9869	9980	0091	0202	0313	0424	
17	515										
18		0544	0755	0866	0977	1088	1199	1309	1420	1531	
19		1753	1863	1974	2085	2196	2307	2417	2528	2639	
3920		2861	2971	3082	3193	3304	3415	3526	3636	3747	
21		3968	4079	4190	4301	4411	4522	4633	4744	4854	
22		5076	5187	5297	5408	5519	5630	5740	5851	5962	
23		6183	6294	6404	6515	6626	6737	6847	6958	7069	
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25	517										
26		0550	0761	0872	0983	1094	1205	1316	1427	1538	
27		1715	1826	1937	2048	2159	2269	2380	2491	2602	
28		2820	2931	3041	3152	3263	3373	3484	3594	3705	
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31		5030	5141	5251	5362	5472	5583	5693	5804	5914	
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33		7239	7350	7460	7571	7681	7792	7902	8012	8123	
34		8344	8454	8564	8675	8785	8895	9006	9116	9227	
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35		0547	0758	0869	0979	1090	1201	1312	1423	1534	
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37		1654	1764	1875	1985	2096	2206	2317	2428	2539	
38		2759	2869	2979	3089	3199	3309	3419	3529	3639	
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42		7165	7275	7387	7497	7607	7717	7827	7937	8047	8158
43		8268	8378	8488	8598	8708	8818	8929	9039	9149	9259
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46		1571	1681	1791	1901	2011	2121	2231	2341	2451	2561
47		2671	2781	2891	3001	3111	3221	3331	3441	3551	3661
48		3771	3881	3991	4101	4211	4321	4431	4541	4651	4761
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52		8169	8279	8389	8499	8609	8719	8829	8939	9048	9158
53	597	9268	9378	9488	9598	9708	9817	9927	0037	0147	0257
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3955		1465	1575	1684	1794	1904	2014	2124	2233	2343	2453
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57		3661	3770	3880	3990	4099	4209	4319	4429	4538	4648
58		4758	4868	4977	5087	5197	5306	5416	5526	5636	5745
59		5855	5965	6074	6184	6294	6403	6513	6623	6733	6842
3960		6952	7062	7171	7281	7391	7500	7610	7719	7829	7939
61		8048	8158	8268	8377	8487	8597	8706	8816	8925	9035
62		9145	9254	9364	9474	9583	9693	9802	9912	0022	0131
63	598	0241	0350	0460	0569	0679	0789	0898	1008	1117	1227
64		1336	1446	1556	1665	1775	1884	1994	2103	2213	2322
3965		2432	2541	2651	2761	2870	2980	3089	3199	3308	3418
66		3527	3637	3746	3856	3965	4075	4184	4294	4403	4513
67		4622	4731	4841	4950	5060	5169	5279	5388	5498	5607
68		5717	5826	5936	6045	6154	6264	6373	6483	6592	6702
69		6811	6920	7030	7139	7249	7358	7467	7577	7686	7795
3970		7905	8014	8124	8233	8343	8452	8561	8671	8780	8890
71		8999	9108	9218	9327	9436	9545	9655	9764	9874	9983
72	599	0092	0202	0311	0420	0530	0639	0748	0858	0967	1076
73		1186	1295	1404	1514	1623	1732	1841	1951	2060	2169
74		2279	2388	2497	2606	2716	2825	2934	3044	3153	3262
3975		3371	3481	3590	3699	3808	3918	4027	4136	4245	4355
76		4464	4573	4682	4791	4901	5010	5119	5228	5338	5447
77		5556	5665	5774	5884	5993	6102	6211	6320	6429	6539
78		6648	6757	6866	6975	7084	7194	7303	7412	7521	7630
79		7739	7849	7958	8067	8176	8285	8394	8503	8612	8722
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81	600	9922	0031	0140	0249	0358	0467	0576	0685	0794	0903
82		1013	1122	1231	1340	1449	1558	1667	1776	1885	1994
83		2103	2212	2321	2430	2539	2648	2757	2866	2975	3084
84		3193	3302	3411	3520	3629	3738	3847	3956	4065	4174
3985		4283	4392	4501	4610	4719	4828	4937	5046	5155	5264
86		5373	5482	5591	5700	5809	5918	6027	6136	6244	6353
87		6464	6571	6680	6789	6898	7007	7116	7225	7334	7443
88		7551	7660	7769	7878	7987	8096	8205	8314	8423	8531
89		8640	8749	8858	8967	9076	9185	9294	9403	9511	9620
3990	601	9729	9838	9947	0055	0164	0273	0382	0491	0600	0708
91		0817	0926	1035	1144	1253	1361	1470	1579	1688	1797
92		1905	2014	2123	2232	2340	2449	2558	2667	2776	2884
93		2993	3102	3211	3319	3428	3537	3646	3754	3863	3972
94		4081	4189	4298	4407	4516	4624	4733	4842	4950	5059
3995		5168	5277	5385	5494	5603	5711	5820	5929	6037	6146
96		6255	6363	6472	6581	6690	6798	6907	7016	7124	7233
97		7341	7450	7559	7667	7776	7885	7993	8102	8211	8319
98		8428	8537	8645	8754	8862	8971	9080	9188	9297	9405
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02		2771	2879	2988	3096	3205	3313	3422	3530	3639	3747
03		3856	3964	4073	4181	4290	4398	4507	4615	4724	4832
04		4941	5049	5158	5266	5375	5483	5591	5700	5808	5917
4005		6025	6134	6242	6351	6459	6567	6676	6784	6893	7001
05		7109	7218	7326	7435	7543	7652	7760	7868	7977	8085
07		8193	8302	8410	8519	8627	8735	8844	8952	9060	9169
08		9271	9385	9494	9602	9711	9819	9927	0036	0144	0252
09	603	0266	0469	0677	0886	0994	1092	1191	1289	1388	1486
4010		1444	1552	1660	1769	1877	1985	2093	2202	2310	2418
11		2527	2635	2743	2851	2960	3068	3176	3284	3393	3501
12		3609	3717	3825	3934	4042	4150	4258	4367	4475	4583
13		4690	4800	4908	5016	5124	5233	5341	5449	5557	5665
14		5774	5882	5990	6098	6206	6315	6423	6531	6639	6747
4015		6855	6964	7072	7180	7288	7396	7504	7613	7721	7829
16		7947	8054	8163	8261	8370	8478	8586	8694	8802	8910
17		9018	9126	9235	9343	9451	9559	9667	9775	9883	9991
18		0099	0207	0315	0424	0532	0640	0748	0856	0964	1072
19	604	1180	1288	1396	1504	1612	1720	1828	1936	2044	2152
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21		3341	3449	3557	3665	3773	3881	3989	4097	4205	4313
22		4401	4509	4617	4725	4833	4941	5050	5158	5266	5374
23		5558	5668	5776	5884	5992	6100	6208	6316	6424	6532
24		6680	6688	6796	6903	7011	7119	7227	7335	7443	7551
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26		8738	8846	8954	9061	9169	9277	9385	9493	9601	9708
27		9816	9924	0032	0140	0248	0356	0464	0571	0679	0787
28	605	0895	1002	1110	1218	1326	1434	1541	1649	1757	1865
29		1973	2080	2188	2296	2404	2512	2620	2727	2835	2943
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31		4128	4236	4343	4451	4559	4667	4774	4882	4990	5098
32		5205	5313	5421	5528	5636	5744	5851	5959	6067	6175
33		6282	6390	6498	6605	6713	6821	6928	7036	7144	7251
34		7369	7467	7574	7682	7790	7897	8005	8112	8220	8328
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36		9512	9619	9727	9834	9942	0050	0157	0265	0372	0480
37	606	0587	0695	0803	0910	1018	1125	1233	1340	1448	1556
38		1663	1771	1878	1986	2093	2201	2308	2416	2523	2631
39		2739	2846	2954	3061	3169	3276	3384	3491	3599	3706
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41		4889	4996	5103	5211	5318	5426	5533	5641	5748	5856
42		5963	6071	6178	6285	6393	6500	6608	6715	6823	6930
43		7037	7145	7252	7360	7467	7574	7682	7789	7897	8004
44		8111	8219	8326	8434	8541	8648	8756	8863	8971	9078
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46		0259	0366	0473	0581	0688	0795	0903	1010	1117	1225
47		1332	1439	1547	1654	1761	1869	1976	2083	2190	2298
48		2405	2512	2620	2727	2834	2941	3049	3156	3263	3371
49		3478	3585	3692	3800	3907	4014	4121	4229	4336	4443
4050		4550	4657	4765	4872	4979	5086	5194	5301	5408	5515
51		5622	5730	5837	5944	6051	6158	6266	6373	6480	6587
52		6694	6802	6909	7016	7123	7230	7337	7445	7552	7659
53		7766	7873	7980	8087	8195	8302	8409	8516	8623	8730
54		8837	8945	9052	9159	9266	9373	9480	9587	9694	9801
4055		9909	0016	0123	0230	0337	0444	0551	0658	0765	0872
56		0979	1087	1194	1301	1408	1515	1622	1729	1836	1943
57		2050	2157	2264	2371	2478	2585	2692	2799	2906	3013
58		3120	3227	3334	3441	3548	3656	3763	3870	3977	4084
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62	7399	7506	7613	7720	7827	7934	8041	8148	8254	8361	21
63	8468	8575	8682	8789	8896	9003	9110	9216	9323	9430	31
64	9537	9644	9751	9858	9964	0071	0178	0285	0392	0499	41
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65	1674	1781	1887	1994	2101	2208	2315	2421	2528	2635	61
66	2744	2850	2956	3063	3169	3276	3382	3489	3596	3703	71
67	3839	3945	4052	4158	4265	4371	4478	4585	4692	4799	81
68	4877	4984	5090	5197	5304	5411	5517	5624	5731	5837	91
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71	7011	7118	7224	7331	7438	7544	7651	7758	7864	7971	
72	8078	8184	8291	8398	8504	8611	8718	8824	8931	9037	
73	9144	9251	9357	9464	9571	9677	9784	9890	9997	0104	
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76	3407	3514	3620	3727	3833	3940	4046	4153	4259	4366	
77	4472	4579	4685	4792	4898	5005	5111	5218	5324	5431	
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82	8730	8836	8943	9049	9156	9262	9368	9475	9581	9687	
83	9794	9900	0007	0113	0219	0326	0432	0538	0645	0751	
84	0857	0964	1070	1176	1283	1389	1495	1602	1708	1814	
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85	2984	3090	3196	3302	3409	3515	3621	3728	3834	3940	
86	4046	4153	4259	4365	4471	4578	4684	4790	4896	5003	
87	5109	5215	5321	5428	5534	5640	5746	5852	5959	6065	
88	6171	6277	6384	6490	6596	6702	6808	6915	7021	7127	
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92	9356	9462	9569	9675	9781	9887	9993	0099	0205	0311	
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96	4660	4766	4872	4978	5084	5190	5296	5402	5508	5614	
97	5720	5826	5932	6037	6143	6249	6355	6461	6567	6673	
98	6779	6885	6991	7097	7203	7309	7415	7521	7627	7733	
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01	8898	9004	9109	9215	9321	9427	9533	9639	9745	9851	
02	9957	0062	0168	0274	0380	0486	0592	0698	0804	0909	
03	1015	1121	1227	1333	1439	1544	1650	1756	1862	1968	
04	2074	2179	2285	2391	2497	2603	2708	2814	2920	3026	
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05	4189	4295	4401	4507	4613	4718	4824	4930	5036	5141	
06	5247	5353	5459	5565	5671	5776	5882	5988	6094	6199	
07	6306	6412	6518	6624	6730	6835	6941	7047	7153	7259	
08	7361	7467	7573	7678	7784	7890	7996	8101	8207	8313	
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11	9475	9580	9686	9792	9897	0003	0109	0214	0320	0425	
12	0531	0637	0742	0848	0954	1059	1165	1270	1376	1481	
13	1587	1693	1798	1904	2009	2115	2221	2326	2432	2537	
14	2643	2748	2854	2960	3065	3171	3276	3382	3487	3593	
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15	4754	4859	4965	5070	5176	5281	5387	5492	5598	5703	
16	5809	5914	6020	6125	6231	6336	6442	6547	6653	6758	
17	6863	6969	7074	7180	7285	7391	7496	7602	7707	7812	
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22	1080	1185	1291	1396	1501	1607	1712	1817	1923	2028	
23	2133	2239	2344	2449	2555	2660	2765	2871	2976	3081	
24	3187	3292	3397	3502	3608	3713	3818	3924	4029	4134	
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26	5292	5397	5503	5608	5713	5818	5924	6029	6134	6239	
27	6345	6450	6555	6660	6766	6871	6976	7081	7186	7292	
28	7397	7502	7607	7712	7818	7923	8028	8133	8238	8344	
29	8449	8554	8659	8764	8870	8975	9080	9185	9290	9395	105
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32	1603	1708	1813	1918	2024	2129	2234	2339	2444	2549	32
33	2654	2759	2864	2969	3074	3179	3284	3389	3495	3600	42
34	3705	3810	3915	4020	4125	4230	4335	4440	4545	4650	53
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37	6855	6960	7065	7170	7275	7380	7485	7590	7695	7800	81
38	7905	8010	8115	8220	8325	8430	8535	8640	8745	8849	88
39	8954	9059	9164	9269	9374	9479	9584	9689	9794	9899	95
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41	1052	1157	1262	1367	1472	1577	1682	1786	1891	1996	
42	2101	2206	2311	2415	2520	2625	2730	2835	2940	3045	
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44	4197	4302	4407	4512	4617	4721	4826	4931	5036	5141	
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47	7340	7445	7550	7655	7759	7864	7969	8073	8178	8283	
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52	2573	2678	2783	2887	2992	3096	3201	3306	3410	3515	
53	3619	3724	3828	3933	4038	4142	4247	4351	4456	4560	
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56	6755	6860	6964	7069	7173	7278	7382	7487	7591	7696	
57	7800	7905	8009	8114	8218	8323	8427	8531	8636	8740	
58	8845	8949	9054	9158	9263	9367	9471	9576	9680	9785	
59	9889	9994	0098	0202	0307	0411	0516	0620	0725	0829	
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61	1977	2082	2186	2290	2395	2499	2603	2708	2812	2916	
62	3021	3125	3229	3334	3438	3542	3647	3751	3855	3959	
63	4064	4168	4273	4377	4481	4585	4690	4794	4899	5003	
64	5107	5212	5316	5420	5524	5629	5733	5837	5942	6046	
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66	7193	7297	7401	7505	7610	7714	7818	7922	8027	8131	
67	8235	8339	8443	8548	8652	8756	8860	8964	9069	9173	
68	9277	9381	9485	9590	9694	9798	9902	0006	0111	0215	
69	0319	0423	0527	0631	0736	0840	0944	1048	1152	1256	
4170	1361	1465	1569	1673	1777	1881	1985	2090	2194	2298	
71	2402	2506	2610	2714	2818	2922	3027	3131	3235	3339	
72	3443	3547	3651	3755	3859	3963	4068	4172	4276	4380	
73	4484	4588	4692	4796	4900	5004	5108	5212	5316	5420	
74	5524	5628	5733	5837	5941	6045	6149	6253	6357	6461	
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76	7605	7709	7813	7917	8021	8125	8229	8333	8437	8541	
77	8645	8749	8853	8957	9061	9165	9269	9373	9477	9581	
78	9684	9788	9892	9996	0100	0204	0308	0412	0516	0620	
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82		3840	3944	4048	4152	4256	4360	4464	4568	4672	20	
83		4879	4983	5087	5190	5294	5398	5502	5606	5709	30	
84		5917	6021	6124	6228	6332	6436	6540	6644	6747	40	
4185		6955	7058	7162	7266	7370	7473	7577	7681	7785	50	
85		7922	8025	8129	8233	8337	8441	8545	8649	8753	60	
86		9030	9133	9237	9341	9444	9548	9652	9756	9859	70	
87											80	
88	681	0067	0170	0274	0378	0482	0585	0689	0793	0896	80	
89		1104	1207	1311	1415	1518	1622	1726	1829	1933	90	
4190		2140	2244	2348	2451	2555	2658	2762	2866	2969	3073	
91		3177	3280	3384	3487	3591	3695	3798	3902	4006	4109	
92		4213	4316	4420	4524	4627	4731	4835	4938	5042	5145	
93		5249	5352	5456	5559	5663	5766	5870	5974	6077	6181	
94		6284	6388	6491	6595	6698	6802	6906	7009	7113	7216	
4195		7320	7423	7527	7630	7734	7837	7941	8044	8148	8251	
95		8355	8458	8562	8665	8769	8872	8976	9079	9183	9286	
96		9390	9493	9597	9700	9804	9907	0011	0114	0217	0321	
97	681	0424	0528	0631	0735	0838	0942	1045	1148	1252	1356	
98		1459	1562	1666	1769	1872	1976	2079	2183	2286	2389	
4200		2493	2596	2700	2803	2906	3010	3113	3217	3320	3423	
01		3527	3630	3734	3837	3940	4044	4147	4250	4354	4457	
02		4560	4664	4767	4871	4974	5077	5181	5284	5388	5491	
03		5594	5697	5801	5904	6007	6111	6214	6317	6420	6524	
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4205		7660	7763	7867	7970	8073	8176	8280	8383	8486	8589	
05		8693	8796	8899	9002	9105	9209	9312	9415	9518	9622	
06		9725	9828	9931	0035	0138	0241	0344	0448	0551	0654	
07		0757	0861	0964	1067	1170	1273	1377	1480	1583	1686	
08	681	1789	1892	1996	2099	2202	2305	2408	2511	2615	2718	
4210		2821	2924	3027	3130	3234	3337	3440	3543	3646	3749	
11		3852	3955	4058	4162	4265	4368	4471	4574	4677	4781	
12		4884	4987	5090	5193	5296	5399	5502	5605	5708	5811	
13		5915	6018	6121	6224	6327	6430	6533	6636	6739	6842	
14		6945	7048	7151	7254	7357	7460	7563	7666	7769	7872	
4215		7975	8079	8182	8285	8388	8491	8594	8697	8800	8903	
15		9006	9109	9212	9315	9418	9521	9624	9727	9830	9933	
16		0036	0139	0242	0345	0448	0551	0654	0757	0860	0963	
17	681	1066	1169	1272	1375	1478	1581	1684	1787	1890	1993	
18		2096	2199	2302	2405	2507	2610	2713	2816	2919	3022	
4220		3125	3227	3330	3433	3536	3639	3742	3845	3948	4051	
21		4154	4256	4359	4462	4565	4668	4771	4874	4977	5079	
22		5182	5285	5388	5491	5594	5697	5799	5902	6005	6108	
23		6211	6314	6417	6520	6623	6726	6829	6931	7034	7136	
24		7239	7342	7445	7548	7650	7753	7856	7959	8062	8164	
4225		8267	8370	8473	8576	8679	8781	8884	8987	9089	9192	
25		9295	9398	9500	9603	9706	9809	9911	0014	0117	0220	
26	681	0322	0425	0528	0631	0733	0836	0939	1042	1144	1247	
27		1350	1453	1555	1658	1761	1863	1966	2069	2171	2274	
28		2377	2480	2582	2685	2788	2890	2993	3096	3198	3301	
4230		3404	3506	3609	3712	3814	3917	4020	4122	4225	4328	
31		4430	4533	4636	4738	4841	4943	5046	5149	5251	5354	
32		5457	5559	5662	5764	5867	5970	6072	6175	6277	6380	
33		6483	6585	6688	6790	6893	6996	7098	7201	7303	7406	
34		7509	7611	7714	7816	7919	8021	8124	8226	8329	8432	
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35		9560	9662	9765	9867	9970	0072	0175	0277	0380	0482	
36	681	0585	0687	0790	0892	0995	1097	1200	1302	1405	1507	
37		1610	1712	1814	1917	2019	2122	2224	2327	2429	2532	
38		2634	2737	2839	2942	3044	3146	3249	3351	3454	3556	
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41		4683	4785	4888	4990	5092	5195	5297	5399	5500	5504
42		5707	5809	5911	6014	6116	6219	6321	6423	6525	6528
43		6730	6833	6935	7037	7140	7242	7344	7447	7549	7551
44		7754	7856	7958	8061	8163	8265	8368	8470	8572	8575
4245		8777	8879	8982	9084	9186	9288	9391	9493	9595	9598
45	628	9800	9902	0004	0107	0209	0311	0414	0516	0618	0720
47		0823	0925	1027	1129	1232	1334	1436	1538	1641	1743
48		1845	1947	2050	2152	2254	2356	2458	2561	2663	2765
49		2867	2970	3072	3174	3276	3378	3481	3583	3685	3787
4250		3889	3991	4094	4196	4298	4400	4502	4605	4707	4809
51		4911	5013	5115	5218	5320	5422	5524	5626	5728	5830
52		5933	6035	6137	6239	6341	6443	6545	6647	6750	6852
53		6954	7056	7158	7260	7362	7464	7566	7668	7771	7873
54		7975	8077	8179	8281	8383	8485	8587	8689	8792	8894
4255	629	8996	9098	9200	9302	9404	9506	9608	9710	9812	9914
55		0016	0118	0220	0322	0424	0526	0628	0730	0832	0934
57		1037	1139	1241	1343	1445	1547	1649	1751	1853	1955
58		2057	2159	2261	2363	2465	2567	2669	2771	2873	2975
59		3076	3178	3280	3382	3484	3586	3688	3790	3892	3994
4260		4096	4198	4300	4402	4504	4606	4708	4810	4911	5013
61		5115	5217	5319	5421	5523	5625	5727	5829	5931	6033
62		6134	6236	6338	6440	6542	6644	6746	6848	6950	7051
63		7153	7255	7357	7459	7561	7663	7765	7867	7969	8070
64		8172	8274	8376	8478	8579	8681	8783	8885	8987	9088
4265	630	9190	9292	9394	9496	9598	9699	9801	9903	0005	0107
65		0209	0311	0412	0514	0616	0717	0819	0921	1023	1125
67		1226	1328	1430	1532	1634	1735	1837	1939	2041	2142
68		2244	2346	2448	2549	2651	2753	2855	2956	3058	3160
69		3262	3363	3465	3567	3668	3770	3872	3974	4075	4177
4270		4279	4380	4482	4584	4686	4787	4889	4991	5092	5194
71		5295	5397	5499	5601	5702	5804	5906	6007	6109	6211
72		6312	6414	6516	6617	6719	6821	6922	7024	7126	7227
73		7329	7431	7532	7634	7735	7837	7939	8040	8142	8244
74		8345	8447	8548	8650	8752	8853	8955	9056	9158	9260
4275	631	9361	9463	9564	9666	9768	9869	9971	0072	0174	0275
75		0377	0479	0580	0682	0783	0885	0986	1088	1189	1291
77		1393	1494	1596	1697	1799	1900	2002	2103	2205	2306
78		2408	2509	2611	2712	2814	2915	3017	3118	3220	3321
79		3423	3524	3626	3727	3829	3930	4032	4133	4235	4336
4280		4438	4539	4641	4742	4844	4945	5046	5148	5249	5351
81		5452	5554	5655	5757	5858	5959	6061	6162	6264	6365
82		6467	6568	6669	6771	6872	6974	7075	7177	7278	7379
83		7481	7582	7684	7785	7886	7988	8089	8190	8292	8393
84		8495	8596	8697	8799	8900	9001	9103	9204	9305	9407
4285	632	9508	9610	9711	9812	9914	0015	0116	0218	0319	0420
85		0522	0623	0724	0826	0927	1028	1130	1231	1332	1434
87		1535	1636	1737	1839	1940	2041	2143	2244	2345	2446
88		2548	2649	2750	2852	2953	3054	3155	3257	3358	3459
89		3560	3662	3763	3864	3965	4067	4168	4269	4370	4472
4290		4573	4674	4775	4877	4978	5079	5180	5282	5383	5484
91		5585	5686	5788	5889	5990	6091	6192	6294	6395	6496
92		6597	6698	6800	6901	7002	7103	7204	7305	7407	7508
93		7609	7711	7811	7912	8014	8115	8216	8317	8418	8519
94		8620	8722	8823	8924	9025	9126	9227	9328	9429	9531
4295	633	9632	9733	9834	9935	0036	0137	0238	0339	0441	0542
95		0643	0744	0845	0946	1047	1148	1249	1350	1451	1552
97		1654	1755	1856	1957	2058	2159	2260	2361	2462	2563
98		2664	2765	2866	2967	3068	3169	3270	3371	3472	3573
99		3674	3775	3876	3977	4079	4180	4281	4382	4483	4584
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01		5694	5795	5896	5997	6098	6199	6300	6401	6502	6603
02		6704	6805	6906	7007	7108	7209	7310	7411	7512	7613
03		7713	7814	7915	8016	8117	8218	8319	8420	8521	8622
04		8723	8824	8925	9026	9127	9228	9329	9430	9531	9632
4305	634	9732	9833	9934	0035	0136	0237	0338	0439	0540	0641
05		0740	0841	0942	1043	1144	1245	1346	1447	1548	1649
06		1740	1850	1950	2051	2152	2253	2354	2455	2556	2657
07		2757	2858	2959	3060	3161	3262	3363	3464	3565	3666
08		3766	3867	3968	4069	4170	4271	4372	4473	4574	4675
4310		4775	4876	4977	5078	5179	5280	5381	5482	5583	5684
11		5785	5886	5987	6088	6189	6290	6391	6492	6593	6694
12		6795	6896	6997	7098	7199	7300	7401	7502	7603	7704
13		7795	7896	7997	8098	8199	8300	8401	8502	8603	8704
14		8805	8906	9007	9108	9209	9310	9411	9512	9613	9714
4315	635	9815	9916	0017	0118	0219	0320	0421	0522	0623	0724
15		0825	0926	1027	1128	1229	1330	1431	1532	1633	1734
16		1835	1936	2037	2138	2239	2340	2441	2542	2643	2744
17		2845	2946	3047	3148	3249	3350	3451	3552	3653	3754
18		3855	3956	4057	4158	4259	4360	4461	4562	4663	4764
19		4865	4966	5067	5168	5269	5370	5471	5572	5673	5774
4320		5875	5976	6077	6178	6279	6380	6481	6582	6683	6784
20		6885	6986	7087	7188	7289	7390	7491	7592	7693	7794
21		7895	7996	8097	8198	8299	8400	8501	8602	8703	8804
22		8905	9006	9107	9208	9309	9410	9511	9612	9713	9814
23		9915	0016	0117	0218	0319	0420	0521	0622	0723	0824
24		0925	1026	1127	1228	1329	1430	1531	1632	1733	1834
4325	636	1935	2036	2137	2238	2339	2440	2541	2642	2743	2844
25		2945	3046	3147	3248	3349	3450	3551	3652	3753	3854
26		3955	4056	4157	4258	4359	4460	4561	4662	4763	4864
27		4965	5066	5167	5268	5369	5470	5571	5672	5773	5874
28		5975	6076	6177	6278	6379	6480	6581	6682	6783	6884
29		6985	7086	7187	7288	7389	7490	7591	7692	7793	7894
4330		7995	8096	8197	8298	8399	8500	8601	8702	8803	8904
30		9005	9106	9207	9308	9409	9510	9611	9712	9813	9914
31		0015	0116	0217	0318	0419	0520	0621	0722	0823	0924
32		1025	1126	1227	1328	1429	1530	1631	1732	1833	1934
33		2035	2136	2237	2338	2439	2540	2641	2742	2843	2944
34		3045	3146	3247	3348	3449	3550	3651	3752	3853	3954
4335	637	4055	4156	4257	4358	4459	4560	4661	4762	4863	4964
35		5065	5166	5267	5368	5469	5570	5671	5772	5873	5974
36		6075	6176	6277	6378	6479	6580	6681	6782	6883	6984
37		7085	7186	7287	7388	7489	7590	7691	7792	7893	7994
38		8095	8196	8297	8398	8499	8600	8701	8802	8903	9004
39		9105	9206	9307	9408	9509	9610	9711	9812	9913	0014
4340		0125	0226	0327	0428	0529	0630	0731	0832	0933	1034
40		1135	1236	1337	1438	1539	1640	1741	1842	1943	2044
41		2145	2246	2347	2448	2549	2650	2751	2852	2953	3054
42		3155	3256	3357	3458	3559	3660	3761	3862	3963	4064
43		4165	4266	4367	4468	4569	4670	4771	4872	4973	5074
44		5175	5276	5377	5478	5579	5680	5781	5882	5983	6084
4345	638	6185	6286	6387	6488	6589	6690	6791	6892	6993	7094
45		7195	7296	7397	7498	7599	7700	7801	7902	8003	8104
46		8205	8306	8407	8508	8609	8710	8811	8912	9013	9114
47		9215	9316	9417	9518	9619	9720	9821	9922	0023	0124
48		0225	0326	0427	0528	0629	0730	0831	0932	1033	1134
49		1235	1336	1437	1538	1639	1740	1841	1942	2043	2144
4350		2245	2346	2447	2548	2649	2750	2851	2952	3053	3154
50		3255	3356	3457	3558	3659	3760	3861	3962	4063	4164
51		4265	4366	4467	4568	4669	4770	4871	4972	5073	5174
52		5275	5376	5477	5578	5679	5780	5881	5982	6083	6184
53		6285	6386	6487	6588	6689	6790	6891	6992	7093	7194
54		7295	7396	7497	7598	7699	7800	7901	8002	8103	8204
55		8305	8406	8507	8608	8709	8810	8911	9012	9113	9214
4355	639	9325	9426	9527	9628	9729	9830	9931	0032	0133	0234
56		0335	0436	0537	0638	0739	0840	0941	1042	1143	1244
57		1345	1446	1547	1648	1749	1850	1951	2052	2153	2254
58		2355	2456	2557	2658	2759	2860	2961	3062	3163	3264
59		3365	3466	3567	3668	3769	3870	3971	4072	4173	4274
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61	5811	5960	6050	6150	6250	6350	6458	6558	6657	6757	
62	6817	6966	7056	7155	7255	7354	7454	7553	7653	7753	
63	7859	7958	8051	8151	8250	8350	8449	8549	8648	8748	
64	8847	8947	9046	9145	9245	9345	9444	9544	9643	9743	
4365	640	9842	9942	0041	0141	0240	0340	0439	0539	0638	
65	0837	0937	1035	1135	1235	1335	1434	1534	1633	1732	
66	1832	1931	2031	2130	2230	2329	2429	2528	2627	2727	
67	2825	2925	3025	3125	3224	3323	3423	3522	3621	3721	
68	3820	3920	4019	4119	4218	4317	4417	4516	4615	4715	
4370	4814	4914	5013	5113	5212	5311	5411	5510	5609	5709	
68	5808	5907	6007	6106	6205	6305	6404	6504	6603	6702	
71	6802	6901	7000	7100	7199	7298	7398	7497	7596	7695	
72	7795	7894	7993	8093	8192	8291	8391	8490	8589	8688	
73	8787	8887	8986	9085	9185	9284	9383	9483	9582	9681	
4375	641	9781	9880	9979	0078	0178	0277	0376	0475	0575	
76	0773	0872	0972	1071	1170	1269	1369	1468	1567	1666	
77	1765	1865	1964	2063	2162	2261	2361	2460	2559	2658	
78	2758	2857	2956	3055	3154	3253	3353	3452	3551	3650	
79	3749	3849	3948	4047	4146	4245	4344	4444	4543	4642	
4380	4741	4840	4939	5039	5138	5237	5336	5435	5534	5633	
81	5733	5832	5931	6030	6129	6228	6327	6426	6525	6625	
82	6724	6823	6922	7021	7120	7219	7318	7417	7517	7616	
83	7715	7814	7913	8012	8111	8210	8309	8408	8507	8606	
84	8705	8805	8904	9003	9102	9201	9300	9399	9498	9597	
4385	642	9636	9735	9834	9933	0032	0131	0230	0329	0428	
86	0527	0626	0725	0824	0923	1022	1121	1220	1319	1418	
87	1516	1615	1714	1813	1912	2011	2110	2209	2308	2407	
88	2506	2605	2704	2803	2902	3001	3100	3200	3299	3398	
89	3497	3596	3695	3794	3893	3992	4091	4190	4289	4388	
4390	4485	4584	4683	4782	4881	4980	5079	5178	5277	5376	
91	5475	5574	5673	5772	5871	5970	6069	6168	6267	6366	
92	6465	6564	6663	6762	6861	6960	7059	7158	7257	7356	
93	7455	7554	7653	7752	7851	7950	8049	8148	8247	8346	
94	8445	8544	8643	8742	8841	8940	9039	9138	9237	9336	
4395	643	9589	9688	9787	9886	9985	0084	0183	0282	0381	
96	0480	0579	0678	0777	0876	0975	1074	1173	1272	1371	
97	1470	1569	1668	1767	1866	1965	2064	2163	2262	2361	
98	2460	2559	2658	2757	2856	2955	3054	3153	3252	3351	
99	3450	3549	3648	3747	3846	3945	4044	4143	4242	4341	
4400	4437	4536	4635	4734	4833	4932	5031	5130	5229	5328	
01	5427	5526	5625	5724	5823	5922	6021	6120	6219	6318	
02	6417	6516	6615	6714	6813	6912	7011	7110	7209	7308	
03	7407	7506	7605	7704	7803	7902	8001	8100	8200	8299	
04	8498	8597	8696	8795	8894	8993	9092	9191	9290	9389	
4405	644	9459	9558	9657	9756	9855	9954	0053	0152	0251	
05	0350	0449	0548	0647	0746	0845	0944	1043	1142	1241	
06	1340	1439	1538	1637	1736	1835	1934	2033	2132	2231	
07	2330	2429	2528	2627	2726	2825	2924	3023	3122	3221	
08	3320	3419	3518	3617	3716	3815	3914	4013	4112	4211	
09	4310	4409	4508	4607	4706	4805	4904	5003	5102	5201	
4410	4305	4404	4503	4602	4701	4800	4899	4998	5097	5196	
11	5295	5394	5493	5592	5691	5790	5889	5988	6087	6186	
12	6285	6384	6483	6582	6681	6780	6879	6978	7077	7176	
13	7275	7374	7473	7572	7671	7770	7869	7968	8067	8166	
14	8265	8364	8463	8562	8661	8760	8859	8958	9057	9156	
4415	645	9307	9406	9505	9604	9703	9802	9901	0000	0100	
16	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	
17	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	
18	2200	2300	2400	2500	2600	2700	2800	2900	3000	3100	
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02		6187	6285	6384	6482	6580	6678	6777	6875	6973	
03		7169	7268	7366	7464	7562	7660	7758	7856	7954	
04		8151	8249	8348	8446	8544	8642	8740	8838	8936	
4405		9133	9231	9329	9427	9525	9623	9721	9819	9917	
05	646	0114	0212	0310	0408	0507	0605	0703	0801	0899	
06		1095	1193	1291	1390	1488	1586	1684	1782	1880	
07		2076	2174	2273	2370	2468	2566	2665	2763	2861	
08		3067	3165	3263	3361	3449	3547	3645	3743	3841	
4410		4037	4135	4233	4331	4429	4527	4625	4723	4821	
10		5018	5116	5214	5312	5410	5508	5606	5704	5802	
11		5998	6096	6193	6291	6389	6487	6585	6683	6781	
12		6977	7075	7173	7271	7369	7467	7565	7663	7761	
13		7959	8057	8155	8253	8351	8449	8547	8645	8743	
4415		8936	9034	9132	9230	9328	9426	9524	9622	9720	
14		9915	0013	0111	0209	0307	0405	0503	0601	0699	
15	647	0894	0992	1090	1188	1286	1384	1482	1579	1677	
16		1873	1971	2069	2167	2265	2363	2460	2558	2656	
17		2851	2949	3047	3145	3243	3341	3438	3536	3634	
4420		3830	3928	4025	4123	4221	4319	4417	4515	4613	
18		4808	4906	5003	5101	5199	5297	5394	5492	5590	
19		5786	5883	5981	6079	6177	6274	6372	6470	6568	
20		6763	6861	6959	7056	7154	7252	7350	7447	7545	
21		7741	7838	7936	8034	8131	8229	8327	8425	8522	
4425		8718	8815	8913	9011	9108	9206	9304	9402	9499	
22		9695	9792	9890	9988	0085	0183	0281	0378	0476	
23	648	0671	0769	0867	0964	1062	1159	1257	1355	1453	
24		1648	1745	1843	1941	2038	2136	2234	2331	2429	
25		2624	2722	2819	2917	3015	3112	3210	3307	3405	
4430		3600	3698	3795	3893	3990	4088	4185	4283	4381	
26		4576	4674	4771	4869	4966	5064	5161	5259	5356	
27		5552	5649	5747	5844	5942	6039	6137	6234	6332	
28		6527	6624	6722	6820	6917	7015	7112	7210	7307	
29		7504	7601	7697	7795	7892	7990	8087	8185	8282	
4435		8477	8574	8672	8770	8867	8964	9062	9159	9257	
30		9452	9549	9647	9744	9842	9939	0037	0134	0231	
31	649	0426	0524	0621	0719	0816	0914	1011	1108	1206	
32		1401	1498	1595	1693	1790	1888	1985	2083	2180	
33		2376	2474	2570	2667	2764	2862	2959	3056	3154	
4440		3349	3446	3543	3641	3738	3835	3933	4030	4128	
34		4322	4420	4517	4614	4712	4809	4907	5004	5101	
35		5296	5393	5490	5588	5685	5782	5880	5977	6074	
36		6269	6366	6463	6561	6658	6755	6853	6950	7047	
37		7242	7339	7436	7534	7631	7728	7825	7923	8020	
4445		8215	8312	8409	8506	8604	8701	8798	8895	8993	
38		9187	9284	9382	9479	9576	9673	9771	9868	9965	
39	650	0160	0257	0354	0451	0548	0645	0743	0840	0937	
40		1132	1229	1326	1423	1520	1618	1715	1812	1909	
41		2104	2201	2298	2395	2492	2589	2687	2784	2881	
4450		3076	3173	3270	3367	3464	3561	3658	3755	3852	
42		4047	4144	4241	4338	4435	4532	4629	4727	4824	
43		5018	5115	5212	5309	5406	5503	5601	5698	5795	
44		5989	6086	6183	6280	6377	6474	6571	6669	6766	
4455		6960	7057	7154	7251	7348	7445	7542	7639	7736	
45		7930	8027	8124	8222	8319	8416	8513	8610	8707	
46		8901	8998	9095	9192	9289	9386	9483	9580	9677	
47	651	9871	9968	0065	0162	0259	0356	0453	0550	0647	
48		0841	0938	1035	1132	1229	1326	1423	1520	1617	
49		1811	1908	2005	2102	2199	2296	2393	2490	2587	
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82	4719	4816	4913	5010	5107	5204	5301	5397	5494	5591	19
83	5657	5754	5851	5948	6045	6142	6239	6336	6433	6530	29
84	6656	6753	6850	6947	7043	7140	7237	7334	7431	7528	39
4485	7624	7721	7818	7915	8012	8109	8206	8303	8399	8496	49
86	8593	8690	8786	8883	8980	9077	9174	9270	9367	9464	59
87	9561	9657	9754	9851	9948	0045	0141	0238	0335	0432	69
88	0528	0625	0722	0819	0916	1013	1109	1206	1303	1399	78
89	1496	1593	1690	1786	1883	1980	2076	2173	2270	2367	87
4490	2463	2560	2657	2754	2850	2947	3044	3140	3237	3334	
91	3431	3527	3624	3721	3817	3914	4011	4107	4204	4301	
92	4377	4474	4571	4668	4764	4861	4957	5054	5151	5248	
93	5344	5441	5538	5634	5731	5827	5924	6021	6117	6214	
94	6331	6427	6524	6621	6717	6814	6910	7007	7104	7200	
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96	8263	8360	8456	8553	8649	8746	8843	8939	9036	9132	
97	9229	9325	9422	9519	9615	9712	9808	9905	0002	0098	
98	0195	0291	0388	0484	0581	0677	0774	0870	0967	1063	
99	1160	1256	1353	1450	1546	1643	1739	1836	1932	2029	
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01	3090	3187	3283	3380	3476	3573	3669	3766	3862	3958	
02	4055	4151	4248	4344	4441	4537	4634	4730	4827	4923	
03	5019	5115	5212	5309	5405	5502	5598	5695	5791	5887	
04	5984	6080	6177	6273	6369	6466	6562	6659	6755	6852	
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06	7912	8008	8105	8201	8297	8394	8490	8586	8683	8779	
07	8876	8972	9068	9165	9261	9357	9454	9550	9646	9743	
08	9839	9935	0032	0128	0224	0321	0417	0513	0610	0706	
09	0802	0899	0995	1091	1188	1284	1380	1477	1573	1669	
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11	2728	2825	2921	3017	3113	3210	3306	3402	3498	3595	
12	3691	3787	3883	3980	4076	4172	4268	4365	4461	4557	
13	4653	4750	4846	4942	5038	5134	5231	5327	5423	5519	
14	5616	5712	5808	5904	6000	6097	6193	6289	6385	6481	
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16	7539	7635	7732	7828	7924	8020	8116	8212	8309	8405	
17	8501	8597	8693	8789	8885	8981	9077	9174	9270	9366	
18	9462	9558	9655	9751	9847	9943	0039	0135	0231	0327	
19	0423	0520	0616	0712	0808	0904	1000	1096	1192	1288	
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21	2345	2441	2537	2633	2729	2825	2921	3017	3113	3210	
22	3306	3402	3498	3594	3690	3786	3882	3978	4074	4170	
23	4266	4362	4458	4554	4650	4746	4842	4938	5034	5130	
24	5225	5322	5418	5514	5610	5706	5802	5898	5994	6090	
4525	6186	6282	6378	6474	6570	6666	6762	6858	6954	7050	
26	7145	7241	7337	7433	7529	7625	7721	7817	7913	8009	
27	8105	8201	8297	8393	8489	8585	8681	8777	8873	8969	
28	9064	9160	9256	9352	9448	9544	9640	9736	9832	9928	
29	651 0023	0119	0215	0311	0407	1503	0599	0695	0791	0887	
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31	1941	2037	2133	2229	2324	2420	2516	2612	2708	2804	
32	2899	2995	3091	3186	3282	3378	3474	3570	3666	3762	
33	3857	3953	4049	4145	4240	4336	4432	4528	4624	4719	
34	4815	4911	5007	5103	5198	5294	5390	5486	5582	5677	
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36	6730	6826	6922	7018	7113	7209	7305	7401	7496	7592	
37	7688	7784	7879	7975	8071	8166	8262	8358	8454	8549	
38	8645	8741	8836	8932	9028	9123	9219	9315	9410	9506	
39	651 9602	9698	9793	9889	9985	0080	0176	0272	0367	0463	
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42		2471	2567	2663	2758	2854	2949	3045	3141	3236	3332
43		3427	3523	3619	3714	3810	3905	4001	4096	4192	4288
44		4383	4479	4574	4670	4765	4861	4957	5052	5148	5243
4545		5339	5434	5529	5625	5721	5817	5912	6008	6103	6199
46		6294	6390	6485	6581	6676	6772	6867	6963	7058	7154
47		7250	7345	7441	7536	7632	7727	7823	7918	8014	8109
48		8205	8300	8395	8491	8587	8682	8777	8873	8968	9064
49		9159	9255	9350	9445	9541	9637	9732	9828	9923	0019
4550	668	0114	0209	0305	0400	0496	0591	0687	0782	0877	0973
51		1068	1164	1259	1355	1450	1545	1641	1736	1832	1927
52		2023	2118	2213	2309	2404	2500	2595	2690	2786	2881
53		2977	3072	3167	3263	3358	3453	3549	3644	3740	3835
54		3930	4025	4121	4216	4312	4407	4502	4598	4693	4788
4555		4884	4979	5074	5170	5265	5361	5456	5551	5647	5742
56		5837	5932	6028	6123	6218	6314	6409	6504	6600	6695
57		6790	6885	6981	7076	7171	7267	7362	7457	7553	7648
58		7743	7838	7934	8029	8124	8220	8315	8410	8505	8601
59		8696	8791	8886	8982	9077	9172	9267	9363	9458	9553
4560	669	9648	9744	9839	9934	0029	0125	0220	0315	0410	0505
61		0601	0696	0791	0886	0982	1077	1172	1267	1362	1458
62		1553	1648	1743	1838	1934	2029	2124	2219	2314	2410
63		2505	2600	2695	2790	2885	2981	3076	3171	3266	3361
64		3456	3551	3647	3742	3837	3932	4027	4122	4218	4313
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66		5359	5454	5549	5644	5740	5835	5930	6025	6120	6215
67		6310	6405	6500	6595	6690	6786	6881	6976	7071	7166
68		7261	7356	7451	7546	7641	7736	7831	7926	8021	8117
69		8212	8307	8402	8497	8592	8687	8782	8877	8972	9067
4570	670	9160	9257	9352	9447	9542	9637	9732	9827	9922	0017
71		0112	0207	0302	0397	0492	0587	0682	0777	0872	0967
72		1062	1157	1252	1347	1442	1537	1632	1727	1822	1917
73		2018	2113	2208	2303	2398	2493	2588	2683	2778	2873
74		2968	3063	3158	3253	3348	3443	3538	3633	3728	3823
4575		3911	4006	4101	4196	4291	4386	4481	4576	4671	4766
76		4860	4955	5050	5145	5240	5335	5430	5525	5620	5715
77		5809	5904	5999	6094	6189	6284	6379	6473	6568	6663
78		6758	6853	6948	7043	7137	7232	7327	7422	7517	7612
79		7706	7801	7896	7991	8086	8181	8276	8371	8465	8560
4580	671	8656	8750	8845	8939	9034	9129	9224	9318	9413	9508
81		9603	9698	9793	9887	9982	0077	0172	0266	0361	0455
82		0551	0646	0740	0835	0930	1025	1120	1214	1309	1404
83		1499	1593	1688	1783	1878	1972	2067	2161	2256	2351
84		2446	2540	2635	2730	2825	2920	3015	3109	3204	3299
4585		3393	3488	3583	3677	3772	3867	3962	4056	4151	4246
86		4341	4435	4530	4625	4719	4814	4909	5003	5098	5193
87		5287	5382	5477	5571	5666	5761	5855	5950	6045	6139
88		6234	6329	6423	6518	6613	6707	6802	6897	6991	7086
89		7181	7275	7370	7464	7559	7654	7748	7843	7938	8032
4590	672	8127	8221	8315	8410	8505	8600	8695	8789	8884	8978
91		9073	9168	9262	9357	9451	9546	9640	9735	9830	9924
92	673	0019	0113	0208	0303	0397	0492	0586	0681	0775	0870
93		0964	1059	1154	1248	1343	1437	1532	1626	1721	1815
94		1910	2004	2099	2193	2288	2382	2477	2571	2666	2761
4595		2855	2950	3044	3139	3233	3328	3422	3517	3611	3706
96		3800	3895	3989	4084	4178	4273	4367	4461	4556	4651
97		4745	4840	4934	5028	5123	5217	5312	5406	5501	5595
98		5690	5784	5879	5973	6067	6162	6256	6351	6445	6540
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02		9466	9561	9655	9749	9844	9938	0032	0127	0221	0315
03	663	0410	0504	0598	0693	0787	0881	0976	1070	1164	1259
04		1353	1447	1542	1636	1730	1825	1919	2013	2108	2202
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06		3239	3334	3428	3522	3616	3711	3805	3899	3994	4088
07		4182	4276	4371	4465	4559	4653	4748	4842	4936	5030
08		5125	5219	5313	5407	5502	5596	5690	5784	5879	5973
09		6067	6161	6256	6350	6444	6538	6632	6727	6821	6915
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11		7951	8045	8140	8234	8328	8422	8516	8610	8705	8799
12		8893	8987	9081	9175	9270	9364	9458	9552	9646	9740
13	664	9835	9929	0023	0117	0211	0305	0399	0494	0588	0682
14		0776	0870	0964	1058	1152	1247	1341	1435	1529	1623
4615		1717	1811	1905	1999	2093	2188	2282	2376	2470	2564
16		2658	2752	2846	2940	3034	3128	3222	3317	3411	3505
17		3599	3693	3787	3881	3975	4069	4163	4257	4351	4445
18		4539	4633	4727	4821	4915	5009	5104	5198	5292	5386
19		5480	5574	5668	5762	5856	5950	6044	6138	6232	6326
4620		6420	6514	6608	6702	6796	6890	6984	7078	7172	7266
21		7360	7454	7548	7642	7736	7830	7924	8018	8112	8206
22		8299	8393	8487	8581	8675	8769	8863	8957	9051	9145
23	665	9239	9333	9427	9521	9615	9709	9803	9896	9990	0084
24		0178	0272	0366	0460	0554	0648	0742	0836	0930	1023
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26		2056	2150	2244	2338	2432	2526	2620	2714	2807	2901
27		2995	3089	3183	3277	3370	3464	3558	3652	3746	3840
28		3934	4027	4121	4215	4309	4403	4497	4590	4684	4778
29		4872	4966	5059	5153	5247	5341	5435	5529	5622	5716
4630		5810	5904	5998	6091	6185	6279	6373	6466	6560	6654
31		6748	6842	6936	7029	7123	7217	7310	7404	7498	7592
32		7686	7779	7873	7967	8061	8154	8248	8342	8436	8529
33		8623	8717	8810	8904	8998	9092	9185	9279	9373	9467
34	666	9560	9654	9748	9841	9935	0029	0123	0216	0310	0404
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36		1434	1528	1622	1715	1809	1903	1996	2090	2184	2277
37		2371	2465	2558	2652	2746	2839	2933	3027	3120	3214
38		3307	3401	3495	3588	3682	3776	3869	3963	4056	4150
39		4244	4337	4431	4525	4618	4712	4806	4899	4993	5086
4640		5180	5273	5367	5461	5554	5648	5741	5835	5929	6022
41		6116	6209	6303	6396	6490	6584	6677	6771	6864	6958
42		7051	7145	7238	7332	7426	7519	7613	7706	7800	7893
43		7987	8080	8174	8267	8361	8454	8548	8642	8735	8829
44		8922	9016	9109	9203	9296	9390	9483	9577	9670	9764
4645		9857	9951	0044	0138	0231	0325	0418	0512	0605	0699
46	667	0792	0886	0979	1072	1166	1259	1353	1446	1540	1633
47		1727	1820	1914	2007	2101	2194	2287	2381	2474	2568
48		2661	2755	2848	2941	3035	3128	3222	3315	3409	3502
49		3595	3689	3782	3876	3969	4063	4156	4249	4343	4436
4650		4530	4623	4716	4810	4903	4996	5090	5183	5277	5370
51		5463	5557	5650	5744	5837	5930	6024	6117	6210	6304
52		6397	6490	6584	6677	6770	6864	6957	7051	7144	7237
53		7331	7424	7517	7611	7704	7797	7891	7984	8077	8170
54		8264	8357	8450	8544	8637	8730	8824	8917	9010	9104
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56		0130	0223	0316	0410	0503	0596	0689	0783	0876	0969
57		1058	1151	1244	1337	1430	1523	1616	1709	1802	1895
58		1987	2080	2173	2266	2359	2452	2545	2638	2731	2824
59		2917	3010	3103	3196	3289	3382	3475	3568	3661	3754
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62	5722	5815	5908	6002	6095	6188	6281	6375	6468	6561	
63	6654	6747	6840	6934	7027	7120	7213	7306	7399	7492	
64	7585	7679	7772	7865	7958	8051	8144	8237	8330	8423	
4665	8516	8610	8703	8796	8889	8982	9075	9168	9261	9354	
66	9447	9540	9633	9727	9820	9913	0006	0099	0192	0285	
67	0378	0471	0564	0657	0750	0843	0936	1029	1122	1215	
68	1308	1402	1495	1588	1681	1774	1867	1960	2053	2146	
69	2239	2332	2425	2518	2611	2704	2797	2890	2983	3076	
4670	3169	3262	3355	3448	3541	3634	3727	3820	3913	4006	
71	4099	4192	4285	4378	4471	4564	4657	4750	4843	4936	
72	5028	5121	5214	5307	5400	5493	5586	5679	5772	5865	
73	5958	6051	6144	6237	6330	6423	6516	6609	6702	6795	
74	6887	6980	7073	7166	7259	7352	7445	7537	7630	7723	
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76	8745	8838	8931	9024	9117	9210	9303	9396	9489	9582	
77	9674	9767	9860	9953	0045	0138	0231	0324	0416	0509	
78	0602	0695	0788	0881	0974	1066	1159	1252	1345	1438	
79	1530	1623	1716	1809	1902	1995	2087	2180	2273	2366	
4680	2459	2551	2644	2737	2830	2923	3015	3108	3201	3294	
81	3386	3479	3572	3665	3758	3850	3943	4036	4129	4222	
82	4314	4407	4500	4593	4685	4778	4871	4964	5057	5149	
83	5242	5334	5427	5520	5613	5705	5798	5891	5984	6076	
84	6169	6262	6354	6447	6540	6632	6725	6818	6911	7003	
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86	8023	8116	8208	8301	8394	8486	8579	8672	8764	8857	
87	8950	9042	9135	9228	9320	9413	9505	9598	9691	9783	
88	9876	9969	0061	0154	0247	0339	0432	0524	0617	0710	
89	0802	0895	0988	1080	1173	1265	1358	1451	1543	1636	
4690	1728	1821	1914	2006	2099	2191	2284	2377	2469	2562	
91	2654	2747	2839	2932	3025	3117	3210	3302	3395	3487	
92	3580	3673	3765	3858	3950	4043	4136	4228	4321	4413	
93	4506	4598	4691	4783	4876	4968	5061	5153	5246	5338	
94	5431	5523	5616	5708	5801	5893	5986	6078	6171	6263	
4695	6356	6448	6541	6633	6726	6818	6911	7003	7096	7188	
96	7281	7373	7465	7558	7651	7743	7836	7928	8021	8113	
97	8206	8298	8391	8483	8575	8668	8760	8853	8945	9038	
98	9130	9223	9315	9407	9500	9592	9685	9777	9870	9962	
99	0054	0147	0239	0332	0424	0517	0609	0702	0794	0886	
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01	1903	1995	2087	2180	2272	2364	2457	2549	2642	2734	
02	2826	2918	3011	3103	3196	3288	3380	3473	3565	3657	
03	3750	3842	3934	4027	4119	4211	4304	4396	4488	4581	
04	4673	4765	4858	4950	5042	5135	5227	5319	5412	5504	
4705	5596	5689	5781	5873	5965	6058	6150	6242	6335	6427	
06	6519	6612	6704	6796	6888	6981	7073	7165	7257	7350	
07	7442	7534	7627	7719	7811	7903	7995	8088	8180	8272	
08	8365	8457	8549	8641	8734	8826	8918	9010	9102	9195	
09	9287	9379	9471	9564	9656	9748	9840	9932	0025	0117	
4710	0209	0301	0393	0485	0578	0670	0762	0854	0947	1039	
11	1131	1223	1315	1408	1500	1592	1684	1776	1868	1961	
12	2053	2145	2237	2329	2421	2514	2606	2698	2790	2883	
13	2974	3067	3159	3251	3343	3436	3528	3619	3712	3804	
14	3896	3988	4080	4172	4264	4356	4448	4541	4633	4725	
4715	4817	4909	5001	5093	5185	5277	5370	5462	5554	5646	
16	5738	5830	5922	6014	6106	6198	6290	6383	6475	6567	
17	6659	6751	6843	6935	7027	7119	7211	7303	7395	7487	
18	7579	7671	7763	7855	7948	8040	8132	8224	8316	8408	
19	8500	8592	8684	8776	8868	8960	9052	9144	9236	9328	
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21	974	0340	0432	0524	0616	0708	0800	0892	0984	1076	1168	1
22		1260	1352	1444	1536	1628	1720	1812	1904	1996	2088	2
23		2170	2271	2363	2455	2547	2639	2731	2823	2915	3007	3
24		3090	3191	3283	3375	3467	3559	3650	3742	3834	3926	4
4725		4018	4110	4202	4294	4386	4478	4570	4661	4753	4845	5
26		4937	5029	5121	5213	5305	5397	5489	5580	5672	5764	6
27		5866	5948	6040	6132	6224	6315	6407	6499	6591	6683	7
28		6775	6867	6958	7050	7142	7234	7326	7418	7509	7601	8
29		7693	7785	7877	7969	8060	8152	8244	8336	8428	8520	9
4730		8611	8703	8795	8887	8979	9070	9162	9254	9346	9438	
31	675	9529	9621	9713	9805	9897	9988	0080	0172	0264	0356	
32		0447	0539	0631	0723	0814	0906	0998	1090	1182	1273	
33		1365	1457	1549	1640	1732	1824	1916	2007	2099	2191	
34		2283	2374	2466	2558	2649	2741	2833	2925	3016	3108	
4735		3200	3292	3383	3475	3567	3658	3750	3842	3934	4025	
36		4117	4209	4302	4394	4484	4575	4667	4759	4850	4942	
37		5034	5126	5217	5309	5401	5492	5584	5676	5767	5859	
38		5951	6042	6134	6226	6317	6409	6501	6592	6684	6775	
39		6867	6959	7050	7142	7234	7326	7417	7509	7600	7692	
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41		8700	8791	8883	8974	9066	9158	9249	9341	9432	9524	
42	676	9615	9707	9799	9890	9982	0073	0165	0257	0348	0440	
43		0531	0623	0714	0806	0897	0989	1081	1172	1264	1356	
44		1447	1538	1630	1721	1813	1905	1996	2088	2179	2271	
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46		3277	3369	3460	3552	3643	3735	3826	3918	4009	4101	
47		4192	4284	4375	4467	4558	4650	4741	4833	4924	5016	
48		5107	5199	5290	5382	5473	5564	5656	5747	5839	5930	
49		6022	6113	6205	6296	6387	6479	6570	6662	6753	6845	
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51		7850	7942	8033	8125	8216	8307	8399	8490	8582	8673	
52		8764	8856	8947	9038	9130	9221	9313	9404	9495	9587	
53	677	9678	9770	9861	9952	0044	0135	0226	0318	0409	0500	
54		0592	0683	0774	0866	0957	1049	1140	1231	1323	1414	
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56		2418	2510	2601	2692	2784	2875	2966	3058	3149	3240	
57		3332	3423	3514	3605	3697	3788	3879	3971	4062	4153	
58		4244	4336	4427	4518	4609	4701	4792	4883	4975	5066	
59		5187	5278	5369	5461	5552	5643	5735	5826	5917	6008	
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61		6982	7073	7164	7255	7347	7438	7529	7620	7712	7803	
62		7894	7985	8076	8168	8259	8350	8441	8532	8623	8715	
63		8806	8897	8988	9079	9171	9262	9353	9444	9535	9626	
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66		1540	1632	1723	1814	1905	1996	2087	2178	2269	2360	
67		2450	2542	2633	2725	2816	2907	2998	3089	3180	3271	
68		3362	3454	3545	3636	3727	3818	3909	4000	4091	4182	
69		4273	4364	4455	4546	4637	4728	4819	4910	5001	5092	
4770		5184	5275	5366	5457	5548	5639	5730	5821	5912	6003	
71		6094	6185	6276	6367	6458	6549	6640	6731	6822	6913	
72		7004	7095	7186	7277	7368	7459	7550	7641	7732	7823	
73		7914	8005	8096	8187	8278	8369	8460	8551	8642	8733	
74		8824	8915	9006	9097	9188	9279	9370	9461	9552	9643	
4775	679	9734	9825	9916	0007	0098	0189	0279	0370	0461	0552	
76		0643	0734	0825	0916	1007	1098	1189	1280	1371	1462	
77		1552	1643	1734	1825	1916	2007	2098	2189	2280	2371	
78		2461	2552	2643	2734	2825	2916	3007	3098	3189	3279	
79		3370	3461	3552	3643	3734	3825	3916	4007	4098	4189	
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83	7024	7115	7206	7297	7388	7479	7570	7661	7752	7843	54
84	7912	8003	8094	8185	8276	8367	8458	8549	8640	8731	72
4785	8819	8910	9001	9092	9183	9274	9365	9456	9547	9638	90
85	9727	9818	9909	9999	0090	0181	0272	0363	0454	0545	18
86	0634	0725	0816	0907	0997	1088	1179	1269	1360	1451	36
87	1541	1632	1723	1814	1904	1995	2086	2177	2267	2358	54
88	2448	2539	2630	2720	2811	2902	2993	3083	3174	3265	72
89											90
4790		3355	3446	3536	3627	3718	3809	3899	3990	4080	18
91		4262	4353	4443	4534	4624	4715	4806	4896	4987	36
92		5168	5259	5349	5440	5531	5621	5712	5803	5894	54
93		6074	6165	6256	6346	6437	6527	6618	6709	6799	72
94		6980	7071	7161	7252	7343	7433	7524	7614	7705	90
4795		7886	7977	8067	8158	8248	8339	8430	8520	8611	18
95		8722	8813	8903	9004	9104	9204	9305	9405	9506	36
96		9677	9768	9858	9949	0039	0130	0220	0311	0401	54
97		0502	0593	0683	0774	0864	0955	1045	1136	1226	72
98		1307	1398	1488	1579	1669	1760	1850	1941	2031	90
99											91
4800		2112	2203	2293	2384	2474	2565	2655	2746	2836	18
01		3317	3408	3498	3589	3679	3770	3860	3951	4041	36
02		4222	4313	4403	4494	4584	4675	4765	4856	4946	54
03		5126	5217	5307	5398	5488	5579	5669	5760	5850	72
04		6030	6121	6211	6302	6392	6483	6573	6664	6754	90
4805		6934	7025	7115	7206	7296	7387	7477	7568	7658	18
05		7838	7929	8019	8109	8199	8290	8380	8471	8561	36
06		8741	8832	8922	9012	9103	9193	9284	9374	9464	54
07		9545	9636	9726	9817	9907	0008	0108	0209	0309	72
08		0408	0509	0609	0709	0809	0909	1009	1109	1209	90
09											91
4810		1451	1541	1631	1722	1812	1902	1993	2083	2173	18
11		2254	2344	2434	2524	2615	2705	2796	2886	2976	36
12		3256	3346	3437	3527	3617	3708	3798	3888	3978	54
13		4159	4249	4339	4429	4520	4610	4700	4791	4881	72
14		5061	5151	5241	5331	5422	5512	5602	5693	5783	90
4815		5884	5975	6065	6156	6246	6337	6427	6518	6608	18
15		6805	6896	6986	7077	7167	7257	7348	7438	7528	36
16		7766	7857	7947	8037	8127	8217	8307	8398	8488	54
17		8608	8698	8788	8879	8969	9059	9149	9239	9329	72
18		9509	9599	9689	9779	9869	9959	0049	0139	0229	90
19											91
4820		0470	0560	0651	0741	0831	0921	1011	1101	1191	18
21		1371	1461	1551	1642	1732	1822	1912	2002	2092	36
22		2272	2362	2452	2543	2633	2723	2813	2903	2993	54
23		3173	3263	3353	3443	3533	3623	3713	3803	3893	72
24		4073	4163	4253	4343	4433	4523	4613	4703	4793	90
4825		4873	4963	5053	5143	5233	5323	5413	5503	5593	18
25		5873	5963	6053	6143	6233	6323	6413	6503	6593	36
26		6773	6863	6953	7043	7133	7223	7313	7403	7493	54
27		7673	7763	7853	7943	8033	8123	8213	8303	8393	72
28		8573	8663	8753	8843	8933	9023	9113	9203	9293	90
29											91
4830		9471	9561	9651	9741	9831	9921	0011	0101	0191	18
31		0370	0460	0550	0640	0730	0820	0910	1000	1090	36
32		1269	1359	1449	1539	1629	1719	1809	1899	1989	54
33		2168	2258	2348	2438	2527	2617	2707	2797	2887	72
34		3066	3156	3246	3336	3426	3516	3606	3696	3786	90
4835		3884	3974	4064	4154	4244	4334	4424	4514	4604	18
35		4884	4974	5064	5154	5244	5334	5424	5514	5604	36
36		5784	5874	5964	6054	6144	6234	6324	6414	6504	54
37		6684	6774	6864	6954	7044	7134	7224	7314	7404	72
38		7584	7674	7764	7854	7944	8034	8124	8214	8304	90
39											91
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41	685	9361	9441	9530	9620	9710	9799	9889	9979	0068	0158	1
42		0248	0338	0427	0517	0607	0696	0785	0875	0965	1055	2
43		1145	1234	1324	1414	1503	1593	1683	1772	1862	1952	3
44		2041	2131	2221	2310	2400	2490	2579	2669	2759	2848	4
4845		2938	3027	3117	3207	3296	3386	3476	3565	3655	3744	5
46		3834	3924	4013	4103	4193	4282	4372	4461	4551	4641	6
47		4730	4820	4909	4999	5089	5178	5268	5357	5447	5537	7
48		5625	5715	5805	5895	5984	6074	6164	6253	6343	6432	8
49		6522	6611	6701	6791	6880	6970	7059	7149	7238	7328	9
4850		7417	7507	7596	7686	7775	7865	7955	8044	8134	8223	
51		8313	8402	8492	8581	8671	8760	8850	8939	9029	9118	
52	686	9208	9297	9387	9476	9566	9655	9745	9834	9924	0013	
53		0103	0192	0282	0371	0461	0550	0640	0729	0819	0908	
54		0998	1087	1177	1266	1356	1445	1535	1624	1713	1803	
4855		1892	1982	2071	2161	2250	2340	2429	2518	2608	2697	
56		2787	2876	2966	3055	3145	3234	3323	3413	3502	3592	
57		3681	3770	3860	3949	4039	4128	4217	4307	4396	4485	
58		4575	4665	4754	4843	4933	5022	5111	5201	5290	5380	
59		5469	5558	5648	5737	5826	5916	6005	6095	6184	6273	
4860		6363	6452	6541	6631	6720	6809	6899	6988	7078	7167	
61		7256	7345	7435	7524	7614	7703	7792	7882	7971	8060	
62		8150	8239	8328	8418	8507	8596	8685	8775	8864	8953	
63		9043	9132	9221	9311	9400	9489	9578	9668	9757	9846	
64	687	9935	0025	0114	0204	0293	0382	0471	0561	0650	0739	
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66		1721	1810	1900	1989	2078	2167	2257	2346	2435	2524	
67		2613	2702	2792	2881	2970	3060	3149	3238	3327	3415	
68		3506	3595	3684	3773	3863	3952	4041	4130	4219	4308	
69		4398	4487	4576	4665	4755	4844	4933	5022	5111	5200	
4870		5290	5379	5468	5557	5646	5735	5825	5914	6003	6092	
71		6181	6270	6360	6449	6538	6627	6716	6805	6895	6984	
72		7073	7162	7251	7340	7429	7518	7608	7697	7786	7875	
73		7964	8053	8142	8231	8321	8410	8499	8588	8677	8766	
74		8855	8944	9033	9123	9212	9301	9390	9479	9568	9657	
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76		0637	0726	0815	0904	0993	1082	1171	1260	1349	1438	
77		1528	1617	1706	1795	1884	1973	2062	2151	2240	2329	
78		2418	2507	2596	2685	2774	2863	2952	3041	3130	3219	
79		3308	3397	3486	3575	3664	3753	3842	3931	4020	4109	
4880		4198	4287	4376	4465	4554	4643	4732	4821	4910	5000	
81		5088	5177	5266	5355	5444	5533	5622	5711	5800	5889	
82		5978	6067	6156	6245	6334	6423	6511	6600	6689	6778	
83		6867	6956	7045	7134	7223	7312	7401	7490	7579	7668	
84		7757	7846	7934	8023	8112	8201	8290	8379	8468	8557	
4885		8646	8735	8823	8912	9001	9090	9179	9268	9357	9446	
86	689	9535	9624	9712	9801	9890	9979	0068	0157	0246	0335	
87		0423	0512	0601	0690	0779	0868	0957	1045	1134	1223	
88		1312	1401	1490	1579	1667	1756	1845	1934	2023	2112	
89		2200	2289	2378	2467	2556	2645	2733	2822	2911	3000	
4890		3089	3177	3266	3355	3444	3533	3621	3710	3799	3888	
91		3977	4066	4154	4243	4332	4421	4509	4598	4687	4775	
92		4864	4953	5042	5131	5220	5308	5397	5486	5575	5663	
93		5752	5841	5930	6018	6107	6196	6285	6373	6462	6551	
94		6640	6728	6817	6906	6995	7083	7172	7261	7350	7438	
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96		8414	8503	8591	8680	8769	8858	8946	9035	9124	9212	
97	690	9301	9390	9478	9567	9656	9744	9833	9922	0010	0099	
98		0188	0276	0365	0454	0542	0631	0720	0808	0897	0986	
99		1074	1163	1252	1340	1429	1518	1606	1695	1784	1872	
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02		3733	3822	3910	3999	4087	4176	4265	4353	4442	4530
03		4619	4708	4796	4885	4973	5062	5150	5239	5327	5416
04		5505	5593	5682	5770	5859	5947	6036	6124	6213	6302
4905		6390	6479	6567	6656	6744	6833	6921	7010	7098	7187
05		7275	7364	7452	7541	7630	7718	7807	7895	7984	8072
06		8161	8249	8338	8426	8515	8603	8692	8780	8869	8957
07		9046	9134	9223	9311	9399	9488	9576	9665	9753	9842
08	691	9930	0019	0107	0195	0284	0373	0461	0550	0638	0726
4910		0815	0903	0992	1080	1169	1257	1346	1434	1522	1611
11		1699	1788	1876	1965	2053	2141	2230	2318	2407	2495
12		2584	2672	2760	2849	2937	3025	3114	3202	3291	3379
13		3468	3556	3644	3733	3821	3909	3998	4086	4175	4263
14		4352	4440	4528	4617	4705	4793	4882	4970	5058	5147
4915		5235	5324	5412	5500	5589	5677	5765	5854	5942	6030
15		6119	6207	6295	6384	6472	6560	6649	6737	6825	6914
16		7002	7090	7179	7267	7355	7444	7532	7620	7709	7797
17		7885	7974	8062	8150	8238	8327	8415	8503	8592	8680
18		8768	8857	8945	9033	9121	9209	9298	9386	9474	9563
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21	692	0534	0622	0710	0798	0887	0975	1063	1151	1240	1328
22		1416	1504	1593	1681	1769	1857	1945	2034	2122	2210
23		2298	2387	2475	2563	2651	2739	2828	2916	3004	3092
24		3180	3269	3357	3445	3533	3621	3710	3798	3886	3974
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25		4944	5032	5120	5208	5297	5385	5473	5561	5649	5737
26		5825	5914	6002	6090	6178	6266	6354	6443	6531	6619
27		6707	6795	6883	6971	7059	7148	7236	7324	7412	7500
28		7588	7676	7764	7853	7941	8029	8117	8205	8293	8381
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31	693	9350	9438	9526	9614	9702	9790	9878	9966	0055	0143
32		0231	0319	0407	0495	0583	0671	0759	0847	0935	1023
33		1111	1199	1287	1375	1463	1551	1639	1727	1815	1903
34		1991	2079	2167	2255	2344	2432	2520	2608	2696	2784
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35		3752	3839	3927	4015	4103	4191	4279	4367	4455	4543
36		4631	4719	4807	4895	4983	5071	5159	5247	5335	5423
37		5511	5599	5687	5775	5863	5951	6039	6127	6215	6303
38		6390	6478	6566	6654	6742	6830	6918	7006	7094	7182
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46		3419	3507	3595	3683	3770	3858	3946	4034	4121	4209
47		4297	4385	4472	4560	4648	4736	4824	4911	5000	5087
48		5175	5262	5350	5438	5526	5613	5701	5789	5877	5964
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55		1313	1401	1488	1576	1663	1751	1839	1926	2014	2102
56		2189	2277	2364	2452	2540	2628	2715	2803	2890	2978
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63	740	7500	7618	7705	7793	7880	7968	8055	8143	8230	3
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67	0942	1029	1116	1204	1291	1379	1466	1554	1641	1728	7
68	1816	1903	1991	2078	2165	2253	2340	2428	2515	2603	8
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73	6185	6272	6359	6447	6534	6621	6709	6796	6883	6970	
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77	697	9676	9764	9851	9938	0025	0113	0200	0287	0374	
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82	4037	4124	4212	4299	4386	4473	4560	4647	4735	4822	
83	4905	4992	5080	5167	5254	5341	5429	5516	5603	5690	
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88	9261	9348	9435	9522	9609	9696	9783	9870	9957	0044	
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97	7093	7180	7267	7354	7441	7528	7615	7702	7789	7876	
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99	8831	8918	9005	9092	9179	9266	9353	9440	9527	9613	
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02	1437	1524	1611	1697	1784	1871	1958	2045	2131	2218	
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06	4908	4995	5082	5169	5255	5342	5429	5516	5603	5689	
07	5776	5863	5949	6036	6123	6210	6297	6383	6470	6556	
08	6643	6730	6817	6903	6990	7077	7163	7250	7337	7424	
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11	700	9244	9331	9417	9504	9591	9677	9764	9851	9937	
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13	0977	1064	1150	1237	1324	1410	1497	1583	1670	1757	
14	1843	1930	2017	2103	2190	2276	2363	2450	2536	2623	
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16	3575	3662	3748	3835	3922	4008	4095	4181	4268	4354	
17	4441	4528	4614	4701	4787	4874	4960	5047	5133	5220	
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03		7086	7172	7258	7344	7430	7516	7602	7688	7774	7860
04	701	0496	0583	0669	0755	0841	0927	1013	1100	1186	1272
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26		2226	2311	2398	2484	2570	2657	2743	2830	2916	3002
27		3089	3175	3262	3348	3434	3521	3607	3694	3780	3866
28		3950	4036	4122	4208	4294	4380	4467	4553	4639	4725
29		4811	4900	4989	5079	5168	5258	5348	5439	5529	5619
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31		6543	6629	6715	6802	6888	6975	7061	7147	7234	7320
32		7406	7492	7579	7665	7752	7838	7924	8011	8097	8183
33		8269	8356	8442	8528	8614	8701	8787	8874	8960	9046
34		9132	9218	9305	9391	9477	9563	9650	9736	9822	9908
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42		6028	6114	6200	6286	6372	6458	6544	6630	6716	6802
43		6889	6975	7061	7147	7233	7319	7405	7491	7577	7663
44		7749	7835	7921	8007	8093	8179	8265	8351	8437	8523
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46	703	9478	9564	9650	9736	9822	9908	9994	0080	0166	0252
47		0338	0424	0510	0596	0682	0768	0854	0940	1026	1112
48		1193	1279	1365	1451	1537	1623	1709	1795	1881	1967
49		2054	2140	2226	2312	2398	2484	2570	2656	2742	2828
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51		3774	3860	3946	4032	4118	4204	4290	4376	4462	4548
52		4633	4719	4805	4891	4977	5063	5149	5235	5321	5407
53		5493	5579	5665	5751	5837	5923	6009	6095	6181	6267
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56		8071	8157	8243	8329	8415	8501	8587	8673	8759	8845
57		8930	9016	9102	9188	9274	9360	9446	9532	9618	9704
58	704	9788	9874	9960	0046	0132	0218	0304	0390	0476	0562
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61		2363	2449	2535	2621	2707	2793	2879	2965	3051	3137
62		3221	3307	3393	3479	3565	3651	3737	3823	3909	3995
63		4079	4165	4251	4337	4423	4509	4595	4681	4767	4853
64		4937	5023	5109	5195	5281	5367	5453	5539	5625	5711
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68		8369	8455	8541	8627	8713	8799	8885	8971	9057	9143
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72		1799	1885	1971	2057	2143	2229	2315	2401	2487	2573
73		2659	2745	2831	2917	3003	3089	3175	3261	3347	3433
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85	3754	3840	3925	4010	4105	4190	4276	4361	4447	4532	
87	4617	4703	4788	4873	4959	5044	5130	5215	5300	5386	
88	5471	5556	5642	5727	5812	5898	5983	6068	6154	6239	
89	6325	6410	6495	6581	6666	6751	6837	6922	7007	7092	
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91	8031	8116	8202	8287	8372	8457	8543	8628	8713	8799	
92	8884	8969	9055	9140	9225	9310	9396	9481	9566	9651	
93	707 9737	9822	9907	9993	0078	0163	0248	0334	0419	0504	
94	0589	0675	0760	0845	0930	1016	1101	1186	1271	1357	
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03	8256	8341	8426	8511	8596	8681	8766	8851	8936	9022	
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06	0808	0893	0978	1063	1148	1233	1318	1403	1488	1574	
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17	0154	0239	0324	0409	0494	0579	0663	0748	0833	0918	
18	1003	1088	1173	1257	1342	1427	1512	1597	1682	1766	
19	1851	1936	2021	2106	2191	2275	2360	2445	2530	2615	
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21	3548	3633	3717	3802	3887	3972	4057	4141	4226	4311	
22	4396	4481	4565	4650	4735	4820	4904	4989	5074	5159	
23	5244	5328	5413	5498	5583	5667	5752	5837	5922	6006	
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38	7941	8026	8110	8195	8279	8364	8448	8533	8617	8702	
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42		1321	1405	1490	1574	1659	1743	1827	1912	1996	2081
43		2165	2250	2334	2419	2503	2587	2672	2756	2841	2925
44		3010	3094	3178	3263	3347	3432	3516	3601	3685	3769
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46		4698	4782	4867	4951	5035	5120	5204	5289	5373	5457
47		5542	5626	5710	5795	5879	5964	6048	6132	6217	6301
48		6385	6470	6554	6638	6723	6807	6892	6976	7060	7145
49		7229	7313	7398	7482	7566	7651	7735	7819	7904	7988
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51		8915	9000	9084	9168	9253	9337	9421	9506	9590	9674
52		9759	9843	9927	0011	0096	0180	0264	0349	0433	0517
53	712	0601	0686	0770	0854	0939	1023	1107	1191	1276	1360
54		1444	1528	1613	1697	1781	1865	1950	2034	2118	2202
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56		3129	3213	3298	3382	3466	3550	3634	3719	3803	3887
57		3971	4055	4140	4224	4308	4392	4477	4561	4645	4729
58		4813	4898	4982	5066	5150	5234	5319	5403	5487	5571
59		5655	5739	5824	5908	5992	6076	6160	6245	6329	6413
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61		7339	7423	7507	7591	7675	7759	7843	7927	8011	8095
62		8180	8264	8348	8432	8517	8601	8685	8769	8853	8937
63		9021	9105	9189	9274	9358	9442	9526	9610	9694	9778
64	713	9862	9946	0031	0115	0199	0283	0367	0451	0535	0619
5165		0703	0787	0871	0955	1040	1124	1208	1292	1376	1460
66		1544	1628	1712	1796	1880	1964	2048	2132	2217	2301
67		2385	2469	2553	2637	2721	2805	2889	2973	3057	3141
68		3225	3309	3393	3477	3561	3645	3729	3813	3897	3981
69		4065	4149	4233	4317	4401	4485	4569	4653	4737	4821
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71		5745	5829	5913	5997	6081	6165	6249	6333	6417	6501
72		6585	6669	6753	6837	6921	7005	7089	7173	7257	7341
73		7425	7509	7593	7677	7761	7845	7929	8013	8097	8181
74		8264	8348	8432	8516	8600	8684	8768	8852	8936	9020
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76	714	9943	0027	0111	0195	0279	0363	0447	0531	0615	0699
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79		2459	2543	2627	2711	2795	2879	2963	3047	3131	3215
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81		4138	4222	4306	4390	4474	4558	4642	4726	4810	4894
82		4974	5058	5142	5226	5310	5394	5478	5562	5646	5730
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86		8325	8409	8493	8577	8661	8745	8829	8913	8997	9081
87		9162	9246	9330	9414	9497	9581	9665	9749	9833	9917
88	715	0000	0084	0168	0252	0336	0420	0504	0588	0672	0756
89		0837	0921	1005	1089	1173	1257	1341	1425	1509	1593
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91		2510	2594	2678	2762	2846	2930	3014	3098	3182	3266
92		3347	3431	3515	3599	3683	3767	3851	3935	4019	4103
93		4187	4271	4355	4439	4523	4607	4691	4775	4859	4943
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96		6696	6780	6864	6948	7032	7116	7200	7284	7368	7452
97		7537	7621	7705	7789	7873	7957	8041	8125	8209	8293
98		8377	8461	8545	8629	8713	8797	8881	8965	9049	9133
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07	5876	5959	6043	6126	6209	6293	6376	6460	6543	6626	
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28	3366	3449	3532	3615	3698	3781	3864	3947	4030	4113	
29	4186	4269	4353	4436	4519	4602	4685	4768	4851	4934	
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37	0826	0909	0992	1075	1157	1240	1323	1406	1489	1572	
38	1655	1738	1821	1904	1987	2070	2153	2236	2319	2402	
39	2484	2567	2650	2733	2816	2899	2982	3065	3148	3231	
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41	4142	4224	4307	4390	4473	4556	4639	4722	4805	4887	
42	4970	5053	5136	5219	5302	5384	5467	5550	5633	5716	
43	5799	5881	5964	6047	6130	6213	6296	6378	6461	6544	
44	6627	6710	6793	6876	6958	7041	7124	7207	7289	7372	
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46	8283	8366	8448	8531	8614	8697	8780	8862	8945	9028	
47	9111	9193	9276	9359	9442	9524	9607	9690	9773	9856	
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49	0766	0848	0931	1014	1097	1179	1262	1345	1428	1510	
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54	4901	4983	5066	5149	5231	5314	5397	5479	5562	5645	
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57	7380	7462	7545	7628	7710	7793	7876	7958	8041	8123	
58	8206	8288	8371	8454	8536	8619	8701	8784	8867	8949	
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66	4809	4891	4973	5056	5138	5221	5304	5386	5469	5551	
67	5633	5716	5798	5881	5963	6046	6128	6210	6293	6375	
68	6458	6540	6623	6705	6787	6870	6952	7035	7117	7200	
69	7282	7364	7447	7529	7612	7694	7777	7859	7942	8024	
70	8106	8189	8271	8353	8436	8518	8601	8683	8766	8848	
71	8930	9013	9095	9177	9260	9342	9425	9507	9589	9672	
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73	0578	0660	0742	0824	0907	0990	1072	1155	1237	1319	
74	1401	1484	1566	1648	1731	1813	1895	1978	2060	2142	
75	2225	2307	2389	2472	2554	2636	2719	2801	2883	2966	
76	3048	3130	3212	3295	3377	3459	3542	3624	3707	3789	
77	3871	3953	4036	4118	4200	4282	4365	4447	4529	4612	
78	4694	4776	4858	4941	5023	5105	5188	5270	5353	5435	
79	5517	5599	5681	5763	5846	5928	6010	6093	6175	6257	
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81	7162	7244	7326	7408	7491	7573	7655	7738	7820	7902	
82	7984	8066	8148	8231	8313	8395	8478	8560	8642	8724	
83	8806	8889	8971	9053	9136	9218	9300	9383	9465	9547	
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86	1272	1354	1436	1518	1600	1682	1765	1847	1929	2011	
87	2093	2175	2257	2339	2421	2503	2585	2667	2749	2831	
88	2914	2996	3078	3160	3242	3324	3406	3488	3570	3652	
89	3733	3815	3897	3979	4061	4143	4225	4307	4389	4471	
90	4553	4635	4717	4799	4881	4963	5045	5127	5209	5291	
91	5373	5455	5537	5619	5701	5783	5865	5947	6029	6111	
92	6193	6275	6357	6439	6521	6603	6685	6767	6849	6931	
93	7011	7093	7175	7257	7339	7421	7503	7585	7667	7749	
94	7839	7921	8003	8085	8167	8249	8331	8413	8495	8577	
95	8660	8742	8824	8906	8988	9070	9152	9234	9316	9398	
96	9480	9562	9644	9726	9808	9890	9972	0054	0136	0218	
97	0300	0382	0464	0546	0628	0710	0792	0874	0956	1038	
98	1120	1202	1284	1366	1447	1529	1611	1693	1775	1857	
99	1939	2021	2103	2185	2267	2349	2431	2513	2595	2677	
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07	8491	8573	8655	8737	8819	8901	8983	9065	9147	9229	
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09	0127	0209	0291	0373	0455	0537	0619	0701	0783	0865	
10	0945	1027	1109	1191	1273	1355	1437	1519	1601	1683	
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03	1565	1646	1728	1809	1891	1973	2054	2136	2217	2299	3 25
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05	4012	4093	4175	4256	4338	4419	4501	4582	4664	4745	6 49
06	4827	4908	4990	5072	5153	5235	5316	5398	5479	5561	7 57
07	5642	5724	5805	5887	5968	6050	6131	6213	6294	6376	8 66
08	6457	6539	6620	6702	6783	6865	6946	7028	7109	7191	9 74
5310	7272	7354	7435	7517	7598	7679	7761	7842	7924	8005	
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11	0530	0612	0693	0774	0856	0937	1019	1100	1181	1263	
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23	2726	2807	2888	2970	3051	3132	3213	3294	3375	3457	
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29	9216	9297	9379	9460	9541	9622	9703	9784	9865	9946	
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34	4888	4969	5050	5131	5212	5293	5374	5455	5536	5617	
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36	7316	7397	7478	7559	7640	7721	7802	7883	7964	8045	
37	8125	8206	8287	8368	8449	8530	8611	8692	8773	8854	
38	8934	9015	9096	9177	9258	9339	9419	9500	9581	9662	
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42	2977	3058	3139	3219	3300	3381	3462	3543	3624	3705	
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43	4595	4676	4757	4838	4919	4999	5080	5161	5242	5323	
44	5403	5484	5565	5646	5727	5808	5889	5970	6051	6132	
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92	7499	7579	7660	7740	7821	7902	7982	8063	8143	8224	
93	8304	8385	8465	8546	8626	8707	8787	8868	8948	9029	
94	9109	9190	9270	9351	9431	9512	9592	9673	9753	9834	
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16	17588	17669	17749	17829	17909	17989	18069	18150	18230	18310	
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49		3168	3448	3527	3607	3687	3767	3846	3926	4005	9
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58	737	0335	0415	0494	0574	0654	0733	0813	0892	0972	
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68		8285	8364	8444	8523	8603	8682	8762	8841	8920	
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74		3048	3127	3207	3286	3365	3444	3524	3603	3683	
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77		5327	5407	5486	5565	5645	5724	5803	5883	5962	
78		6320	6400	6479	6558	6637	6717	6796	6875	6954	
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83		0182	0262	0341	0420	0499	0578	0658	0737	0816	
84		0974	1054	1133	1212	1291	1370	1450	1529	1608	
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88		4141	4220	4300	4378	4458	4537	4616	4695	4774	
89		4936	5015	5095	5174	5249	5328	5407	5486	5565	
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91		6514	6594	6673	6752	6831	6910	6989	7068	7147	
92		7305	7384	7463	7542	7622	7701	7780	7859	7937	
93		8096	8175	8254	8333	8412	8491	8570	8649	8728	
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07		9151	9230	9308	9387	9466	9545	9624	9703	9782	9860
08		9939	0018	0097	0176	0255	0334	0412	0491	0570	0649
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13		3880	3959	4037	4116	4195	4274	4353	4431	4510	4589
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17		7030	7109	7187	7266	7345	7423	7502	7581	7660	7738
18		7817	7895	7974	8053	8132	8210	8289	8368	8447	8525
19		8604	8683	8761	8840	8919	8997	9076	9155	9233	9312
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21	74	0177	0256	0335	0413	0492	0571	0649	0728	0807	0885
22		0964	1043	1121	1200	1279	1357	1436	1515	1593	1672
23		1750	1829	1908	1987	2065	2144	2222	2301	2379	2458
24		2537	2615	2694	2773	2851	2930	3008	3087	3165	3244
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26		4109	4187	4266	4345	4423	4502	4580	4659	4737	4816
27		4895	4973	5052	5130	5209	5288	5366	5445	5523	5602
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29		6466	6544	6623	6702	6780	6859	6937	7016	7094	7173
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31		8037	8115	8194	8272	8351	8429	8508	8586	8665	8743
32		8822	8900	8979	9057	9136	9214	9293	9371	9450	9528
33		9607	9685	9764	9842	9921	9999	0078	0156	0235	0313
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37		2745	2824	2902	2981	3059	3137	3216	3294	3373	3451
38		3530	3608	3686	3765	3843	3922	4000	4078	4157	4235
39		4314	4392	4470	4549	4627	4706	4784	4862	4941	5019
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41		5882	5960	6038	6117	6195	6273	6352	6430	6508	6587
42		6665	6744	6822	6900	6979	7057	7135	7214	7292	7370
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44		8232	8311	8389	8467	8546	8624	8702	8781	8859	8937
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46		9799	9877	9955	0034	0112	0190	0268	0347	0425	0503
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52		4495	4573	4651	4729	4807	4885	4964	5042	5120	5199
53		5277	5355	5433	5511	5590	5668	5746	5824	5902	5981
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56		7622	7701	7779	7857	7935	8013	8091	8170	8248	8326
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67		6212	6290	6368	6446	6524	6602	6680	6758	6836	6914
68		6992	7070	7148	7226	7304	7382	7460	7538	7616	7694
69		7772	7850	7928	8006	8084	8162	8240	8318	8396	8474
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73		0890	0968	1046	1124	1202	1280	1358	1436	1514	1592
74		1670	1748	1826	1903	1981	2059	2137	2215	2293	2371
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76		3228	3306	3383	3461	3539	3617	3695	3773	3851	3929
77		4006	4084	4162	4240	4318	4396	4474	4552	4630	4707
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79		5564	5641	5719	5797	5875	5953	6031	6108	6186	6264
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81		7120	7198	7276	7354	7431	7509	7587	7665	7743	7821
82		7899	7977	8054	8132	8210	8288	8365	8443	8521	8599
83		8677	8754	8832	8910	8987	9065	9143	9221	9299	9376
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87		1787	1864	1942	2020	2098	2175	2253	2331	2409	2486
88		2564	2642	2719	2797	2875	2953	3030	3108	3186	3263
89		3341	3419	3497	3574	3652	3730	3807	3885	3963	4040
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92		5672	5749	5827	5905	5982	6060	6138	6215	6293	6371
93		6448	6526	6603	6681	6759	6836	6914	6992	7069	7147
94		7225	7302	7380	7458	7535	7613	7690	7768	7846	7923
5595		8001	8079	8156	8234	8311	8389	8467	8544	8622	8699
96		8777	8855	8932	9010	9087	9165	9243	9320	9398	9475
97	748	9553	9631	9708	9786	9863	9941	0019	0096	0174	0251
98		0329	0407	0484	0562	0639	0717	0794	0872	0950	1027
99		1105	1182	1260	1337	1415	1492	1570	1648	1725	1803
5600		1880	1958	2035	2113	2190	2268	2346	2423	2501	2578
01		2656	2733	2811	2888	2966	3043	3121	3198	3276	3354
02		3431	3509	3586	3664	3741	3819	3896	3974	4051	4129
03		4206	4284	4361	4439	4516	4594	4671	4749	4826	4904
04		4981	5059	5136	5214	5291	5369	5446	5524	5601	5679
5605		5756	5834	5911	5989	6066	6144	6221	6299	6376	6453
06		6531	6608	6686	6763	6841	6918	6996	7073	7151	7228
07		7306	7383	7460	7538	7615	7693	7770	7848	7925	8003
08		8080	8157	8235	8312	8390	8467	8545	8622	8700	8777
09		8854	8932	9009	9087	9164	9242	9319	9396	9474	9551
5610	749	9629	9706	9783	9861	9938	0016	0093	0170	0248	0325
11		0403	0480	0557	0635	0712	0790	0867	0944	1022	1099
12		1177	1254	1331	1409	1486	1564	1641	1718	1796	1873
13		1950	2028	2105	2183	2260	2337	2415	2492	2569	2647
14		2724	2801	2879	2956	3034	3111	3188	3266	3343	3420
5615		3498	3575	3652	3730	3807	3885	3962	4039	4116	4194
16		4271	4348	4426	4503	4580	4658	4735	4812	4890	4967
17		5044	5122	5199	5276	5353	5431	5508	5585	5663	5740
18		5817	5895	5972	6049	6127	6204	6281	6358	6436	6513
19		6590	6668	6745	6822	6899	6977	7054	7131	7209	7286
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02		8908	8986	9063	9140	9217	9294	9372	9449	9526	9604
03	750	9681	9758	9836	9913	9990	0067	0144	0221	0299	0376
04		0453	0530	0608	0685	0762	0839	0916	0994	1071	1148
5605		1225	1302	1380	1457	1534	1611	1688	1765	1843	1920
06		1997	2074	2152	2229	2306	2383	2460	2538	2615	2692
07		2769	2846	2924	3001	3078	3155	3232	3309	3387	3464
08		3541	3618	3695	3772	3850	3927	4004	4081	4158	4235
09		4312	4389	4467	4544	4621	4698	4775	4853	4930	5007
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11		5855	5932	6010	6087	6164	6241	6318	6395	6472	6549
12		6626	6704	6781	6858	6935	7012	7089	7166	7243	7320
13		7398	7475	7552	7629	7706	7783	7860	7937	8014	8091
14		8168	8245	8322	8400	8477	8554	8631	8708	8785	8862
5615		8939	9016	9093	9170	9247	9324	9402	9479	9556	9633
16	751	9710	9787	9864	9941	0018	0095	0172	0249	0326	0403
17		0480	0557	0634	0711	0788	0865	0943	1020	1097	1174
18		1251	1328	1405	1482	1559	1636	1713	1790	1867	1944
19		2021	2098	2175	2252	2329	2406	2483	2560	2637	2714
5620		2791	2868	2945	3022	3099	3176	3253	3330	3407	3484
21		3561	3638	3715	3792	3869	3946	4023	4100	4177	4254
22		4331	4408	4485	4562	4639	4716	4793	4870	4947	5024
23		5101	5177	5254	5331	5408	5485	5562	5639	5716	5793
24		5870	5947	6024	6101	6178	6255	6332	6409	6486	6563
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26		7409	7486	7563	7639	7716	7793	7870	7947	8024	8101
27		8178	8255	8332	8409	8485	8562	8639	8716	8793	8870
28		8947	9024	9101	9178	9254	9331	9408	9485	9562	9639
29	752	9710	9787	9870	9945	0023	0100	0177	0254	0331	0408
5630		0484	0561	0638	0715	0792	0869	0946	1023	1099	1176
31		1255	1330	1407	1484	1560	1637	1714	1791	1868	1945
32		2022	2098	2175	2252	2329	2406	2483	2560	2636	2713
33		2790	2867	2944	3020	3097	3174	3251	3328	3404	3481
34		3568	3645	3722	3798	3875	3952	4029	4105	4182	4259
5635		4336	4413	4489	4566	4643	4719	4796	4873	4950	5027
36		5094	5171	5248	5324	5401	5478	5555	5631	5708	5785
37		5862	5939	6015	6092	6169	6245	6322	6399	6476	6553
38		6630	6706	6783	6860	6936	7013	7090	7167	7243	7320
39		7397	7474	7550	7627	7704	7781	7857	7934	8011	8088
5640		8164	8241	8318	8394	8471	8548	8625	8701	8778	8855
41		8932	9008	9085	9162	9238	9315	9392	9469	9545	9622
42	753	9699	9775	9852	9929	0005	0082	0159	0236	0312	0389
43		0466	0542	0619	0695	0772	0849	0925	1002	1079	1156
44		1232	1309	1386	1462	1539	1616	1692	1769	1846	1922
5645		1999	2075	2152	2229	2306	2383	2459	2536	2612	2689
46		2766	2842	2919	2995	3072	3149	3225	3302	3379	3455
47		3532	3609	3685	3762	3839	3915	3992	4069	4145	4222
48		4298	4375	4452	4528	4605	4682	4758	4835	4911	4988
49		5065	5141	5218	5294	5371	5448	5524	5601	5677	5754
5650		5831	5907	5984	6060	6137	6214	6290	6367	6443	6520
51		6596	6673	6750	6826	6903	6979	7056	7133	7209	7286
52		7362	7439	7515	7592	7668	7745	7822	7898	7975	8051
53		8128	8204	8281	8357	8434	8511	8587	8664	8740	8817
54		8893	8970	9046	9123	9199	9276	9353	9429	9506	9582
5655	754	9659	9735	9812	9888	9965	0041	0118	0194	0271	0347
56		0424	0500	0577	0653	0730	0806	0883	0959	1036	1112
57		1189	1265	1342	1418	1495	1571	1648	1724	1801	1877
58		1954	2030	2107	2183	2260	2336	2413	2489	2566	2642
59		2719	2795	2872	2948	3025	3101	3178	3254	3330	3407
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81		4248	4324	4401	4477	4554	4630	4707	4783	4859	4936
82		5012	5089	5165	5242	5318	5394	5471	5547	5624	5700
83		5777	5853	5929	6006	6082	6159	6235	6311	6388	6464
84		6541	6617	6694	6770	6846	6923	6999	7076	7152	7228
6585		7305	7381	7457	7534	7610	7687	7763	7839	7916	7992
86		8069	8145	8221	8298	8374	8450	8527	8603	8680	8756
87		8832	8909	8985	9061	9138	9214	9290	9367	9443	9520
88	756	9596	9672	9749	9825	9901	9978	0054	0130	0207	0283
89		0359	0436	0512	0588	0665	0741	0817	0894	0970	1046
6690		1123	1199	1275	1352	1428	1504	1581	1657	1733	1810
91		1886	1962	2038	2115	2191	2267	2344	2420	2496	2573
92		2649	2725	2802	2878	2954	3030	3107	3183	3259	3336
93		3412	3488	3564	3641	3717	3793	3870	3946	4022	4098
94		4175	4251	4327	4403	4480	4556	4632	4709	4785	4861
6695		4937	5014	5090	5166	5242	5319	5395	5471	5547	5624
96		5700	5776	5852	5929	6005	6081	6157	6233	6310	6386
97		6462	6538	6615	6691	6767	6843	6920	6996	7072	7148
98		7224	7301	7377	7453	7529	7605	7682	7758	7834	7910
99		7987	8063	8139	8215	8291	8368	8444	8520	8596	8672
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01	756	9510	9587	9663	9739	9815	9891	9967	0044	0120	0196
02		0272	0348	0424	0501	0577	0653	0729	0805	0881	0958
03		1034	1110	1186	1262	1338	1414	1491	1567	1643	1719
04		1795	1871	1947	2024	2100	2176	2252	2328	2404	2480
8705		2556	2633	2709	2785	2861	2937	3013	3089	3165	3242
06		3318	3394	3470	3546	3622	3698	3774	3850	3927	4003
07		4079	4155	4231	4307	4383	4459	4535	4611	4687	4764
08		4840	4916	4992	5068	5144	5220	5296	5372	5448	5524
09		5600	5677	5753	5829	5905	5981	6057	6133	6209	6285
8710		6361	6437	6513	6589	6665	6741	6817	6893	6970	7046
11		7122	7198	7274	7350	7426	7502	7578	7654	7730	7806
12		7882	7958	8034	8110	8186	8262	8338	8414	8490	8566
13		8642	8718	8794	8870	8946	9022	9098	9174	9250	9326
14	757	9402	9478	9554	9630	9706	9782	9858	9934	0010	0086
8715		0162	0238	0314	0390	0466	0542	0618	0694	0770	0846
16		0922	0998	1074	1150	1226	1302	1378	1454	1530	1606
17		1682	1758	1834	1910	1986	2062	2138	2214	2290	2366
18		2442	2517	2593	2669	2745	2821	2897	2973	3049	3125
19		3201	3277	3353	3429	3505	3581	3657	3733	3809	3884
8720		3960	4036	4112	4188	4264	4340	4416	4492	4568	4644
21		4719	4795	4871	4947	5023	5099	5175	5251	5327	5403
22		5479	5554	5630	5706	5782	5858	5934	6010	6086	6162
23		6237	6313	6389	6465	6541	6617	6693	6769	6845	6920
24		6996	7072	7148	7224	7300	7376	7451	7527	7603	7679
8725		7755	7831	7907	7982	8058	8134	8210	8286	8362	8438
26		8513	8589	8665	8741	8817	8893	8969	9044	9120	9196
27		9272	9348	9423	9499	9575	9651	9727	9803	9879	9954
28	758	0030	0106	0182	0258	0333	0409	0485	0561	0637	0712
29		0788	0864	0940	1016	1091	1167	1243	1319	1395	1470
8730		1546	1622	1698	1774	1849	1925	2001	2077	2153	2228
31		2304	2380	2456	2531	2607	2683	2759	2835	2910	2986
32		3062	3138	3213	3289	3365	3441	3516	3592	3668	3744
33		3819	3895	3971	4047	4122	4198	4274	4350	4425	4501
34		4577	4653	4728	4804	4880	4956	5031	5107	5183	5259
8735		5334	5410	5486	5561	5637	5713	5789	5864	5940	6016
36		6091	6167	6243	6319	6394	6470	6546	6621	6697	6773
37		6848	6924	7000	7076	7151	7227	7303	7378	7454	7530
38		7605	7681	7757	7832	7908	7984	8060	8135	8211	8287
39		8362	8438	8514	8589	8665	8741	8816	8892	8968	9043
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42		0632	0708	0783	0858	0934	1010	1085	1161	1237	1313
43		1388	1464	1539	1615	1691	1766	1842	1917	1993	2069
44		2144	2220	2295	2371	2447	2522	2598	2674	2749	2825
5745		2900	2976	3052	3127	3203	3278	3354	3429	3505	3581
45		3656	3732	3807	3883	3959	4034	4110	4185	4261	4336
46		4412	4488	4563	4639	4714	4790	4865	4941	5016	5092
47		5168	5243	5319	5394	5470	5545	5621	5696	5772	5847
48		5923	5999	6074	6150	6225	6301	6376	6452	6527	6603
5750		6678	6754	6830	6905	6981	7056	7132	7207	7283	7358
51		7434	7509	7585	7660	7736	7811	7887	7962	8038	8113
52		8189	8264	8340	8415	8491	8566	8642	8717	8793	8868
53		8944	9019	9095	9170	9246	9321	9397	9472	9548	9623
54	760	9699	9774	9850	9925	0000	0075	0151	0227	0302	0378
5755		0453	0529	0604	0680	0755	0831	0906	0981	1057	1132
56		1208	1283	1359	1434	1510	1585	1661	1736	1811	1887
57		1962	2038	2113	2189	2264	2339	2415	2490	2566	2641
58		2717	2792	2868	2943	3018	3094	3169	3244	3320	3395
59		3471	3546	3622	3697	3772	3848	3923	3999	4074	4149
5760		4225	4300	4376	4451	4526	4602	4677	4752	4828	4903
61		4979	5054	5130	5205	5280	5356	5431	5506	5582	5657
62		5733	5808	5883	5959	6034	6109	6185	6260	6335	6411
63		6486	6562	6637	6712	6788	6863	6938	7014	7089	7164
64		7240	7315	7390	7466	7541	7616	7692	7767	7842	7918
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66		8746	8822	8897	8972	9048	9123	9198	9274	9349	9424
67	761	9500	9575	9650	9725	9801	9876	9951	0027	0102	0177
68		0253	0328	0403	0478	0554	0629	0704	0780	0855	0930
69		1005	1081	1156	1231	1307	1382	1457	1532	1608	1683
5770		1758	1833	1909	1984	2059	2134	2210	2285	2360	2435
71		2511	2586	2661	2737	2812	2887	2962	3037	3113	3188
72		3263	3338	3414	3489	3564	3639	3715	3790	3865	3940
73		4016	4091	4166	4241	4316	4392	4467	4542	4617	4692
74		4768	4843	4918	4993	5069	5144	5219	5294	5369	5444
5775		5520	5595	5670	5745	5821	5896	5971	6046	6121	6197
76		6272	6347	6422	6497	6572	6648	6723	6798	6873	6948
77		7024	7099	7174	7249	7324	7400	7475	7550	7625	7700
78		7775	7851	7926	8001	8076	8151	8226	8301	8377	8452
79		8527	8602	8677	8752	8828	8903	8978	9053	9128	9203
5780		9278	9354	9429	9504	9579	9654	9729	9804	9879	9955
81	762	0030	0105	0180	0255	0330	0405	0480	0556	0631	0706
82		0781	0856	0931	1006	1081	1156	1232	1307	1382	1457
83		1532	1607	1682	1757	1832	1907	1982	2058	2133	2208
84		2283	2358	2433	2508	2583	2658	2733	2808	2883	2959
5785		3034	3109	3184	3259	3334	3409	3484	3559	3634	3709
86		3784	3859	3934	4009	4085	4160	4235	4310	4385	4460
87		4535	4610	4685	4760	4835	4910	4985	5060	5135	5210
88		5285	5360	5435	5510	5585	5660	5735	5810	5885	5960
89		6035	6110	6185	6260	6335	6411	6486	6561	6636	6711
5790		6785	6861	6936	7011	7086	7161	7236	7311	7386	7461
91		7536	7611	7686	7761	7836	7911	7986	8061	8136	8211
92		8286	8361	8436	8511	8586	8661	8736	8811	8886	8961
93		9036	9111	9186	9261	9336	9411	9486	9561	9636	9711
94	763	9785	9860	9935	0010	0085	0160	0235	0310	0385	0460
5795		0534	0609	0684	0759	0834	0909	0984	1059	1134	1209
96		1284	1359	1434	1509	1583	1658	1733	1808	1883	1958
97		2033	2108	2183	2258	2333	2408	2483	2558	2633	2707
98		2782	2857	2932	3007	3082	3157	3232	3307	3382	3457
99		3531	3606	3681	3756	3831	3906	3981	4056	4131	4205
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02		5777	5852	5927	6002	6077	6151	6226	6301	6376	2
03		6586	6661	6735	6810	6885	6960	7035	7110	7185	3
04		7474	7549	7624	7699	7774	7849	7924	7999	8074	4
5805		8322	8397	8472	8547	8621	8696	8771	8846	8921	5
06		8770	8845	8920	8995	9070	9145	9220	9295	9370	6
07	764	9518	9593	9668	9743	9817	9892	9967	10042	10117	7
08		10466	10541	10616	10691	10766	10841	10916	10991	11066	8
09		11014	11089	11163	11238	11313	11388	11463	11538	11613	9
5810		1761	1836	1911	1986	2060	2135	2210	2285	2360	
11		2509	2583	2658	2733	2808	2883	2958	3033	3108	
12		3256	3331	3406	3480	3555	3630	3705	3780	3855	
13		4003	4078	4153	4228	4303	4378	4453	4528	4603	
14		4750	4825	4900	4975	5050	5125	5200	5275	5350	
5815		5497	5572	5647	5721	5796	5871	5946	6021	6096	
16		6244	6319	6394	6469	6543	6618	6693	6768	6843	
17		6991	7066	7141	7216	7291	7366	7441	7516	7591	
18		7737	7812	7887	7962	8037	8112	8187	8262	8337	
19		8484	8559	8634	8709	8784	8859	8934	9009	9084	
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21	765	9976	10051	10126	10201	10276	10351	10426	10501	10576	
22		10722	10797	10872	10947	11022	11097	11172	11247	11322	
23		11468	11543	11618	11693	11768	11843	11918	11993	12068	
24		12214	12289	12364	12439	12514	12589	12664	12739	12814	
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27		14450	14525	14600	14675	14750	14825	14900	14975	15050	
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29		15941	16016	16091	16166	16241	16316	16391	16466	16541	
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32		18175	18250	18325	18400	18475	18550	18625	18700	18775	
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37		21897	21972	22047	22122	22197	22272	22347	22422	22497	
38		22641	22716	22791	22866	22941	23016	23091	23166	23241	
39		23385	23460	23535	23610	23685	23760	23835	23910	23985	
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41		24872	24947	25022	25097	25172	25247	25322	25397	25472	
42		25616	25691	25766	25841	25916	25991	26066	26141	26216	
43		26360	26435	26510	26585	26660	26735	26810	26885	26960	
44		27104	27179	27254	27329	27404	27479	27554	27629	27704	
5845		27848	27923	27998	28073	28148	28223	28298	28373	28448	
46		28588	28663	28738	28813	28888	28963	29038	29113	29188	
47	767	29331	29406	29481	29556	29631	29706	29781	29856	29931	
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49		30816	30891	30966	31041	31116	31191	31266	31341	31416	
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57		36767	36842	36917	36992	37067	37142	37217	37292	37367	
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62	0458	0532	0606	0680	0754	0828	0902	0977	1051	1125	1199
63	1199	1273	1347	1421	1495	1569	1643	1717	1791	1865	1939
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66	4161	4235	4309	4383	4457	4531	4605	4679	4753	4827	4901
67	4901	4975	5049	5123	5197	5271	5345	5419	5493	5567	5641
68	5641	5715	5789	5863	5937	6011	6085	6159	6233	6307	6381
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82	7481	7555	7629	7703	7777	7851	7925	7999	8073	8147	8221
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84	8961	9035	9109	9183	9257	9331	9405	9479	9553	9627	9701
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91	5621	5695	5769	5843	5917	5991	6065	6139	6213	6287	6361
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02	5241	5315	5389	5463	5537	5611	5685	5759	5833	5907	5981
03	5981	6055	6129	6203	6277	6351	6425	6499	6573	6647	6721
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07	9681	9755	9829	9903	9977	0051	0125	0199	0273	0347	0421
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23	5417	5491	5564	5637	5711	5784	5857	5931	6004	6077	3 22
24	6150	6224	6297	6370	6444	6517	6590	6664	6737	6810	4 29
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26	7616	7690	7763	7836	7910	7983	8056	8129	8203	8276	6 44
27	8349	8423	8496	8569	8642	8716	8789	8862	8935	9009	7 51
28	9082	9155	9228	9302	9375	9448	9521	9595	9668	9741	8 58
29	9815	9888	9961	0034	0107	0181	0254	0327	0400	0474	9 66
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31	1279	1352	1425	1499	1572	1645	1719	1792	1865	1938	
32	2011	2085	2158	2231	2304	2377	2451	2524	2597	2670	
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36	4939	5012	5085	5158	5232	5305	5378	5451	5524	5597	
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38	6402	6475	6548	6621	6694	6768	6841	6914	6987	7060	
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43	774	0057	0130	0203	0277	0350	0423	0496	0569	0642	
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46	2249	2322	2395	2468	2541	2614	2687	2760	2833	2906	
47	2979	3052	3125	3198	3271	3344	3417	3490	3563	3636	
48	3710	3783	3856	3929	4002	4075	4148	4221	4294	4367	
49	4440	4513	4586	4659	4732	4805	4878	4951	5024	5097	
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53	7359	7432	7505	7578	7651	7724	7797	7869	7942	8015	
54	8088	8161	8234	8307	8380	8453	8526	8599	8672	8745	
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58	1005	1078	1151	1224	1297	1369	1442	1515	1588	1661	
59	1734	1807	1880	1953	2025	2098	2171	2244	2317	2390	
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66	6832	6905	6978	7051	7124	7197	7269	7342	7415	7488	
67	7560	7633	7706	7779	7851	7924	7997	8070	8143	8215	
68	8288	8361	8434	8506	8579	8652	8725	8798	8870	8943	
69	9016	9089	9161	9234	9307	9380	9452	9525	9598	9671	
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71	0471	0545	0618	0691	0764	0837	0910	0983	1055	1128	
72	1198	1271	1344	1416	1489	1562	1634	1707	1780	1852	
73	1925	1998	2071	2143	2216	2289	2361	2434	2507	2579	
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82		8464	8537	8609	8682	8754	8825	8896	8967	9037	2
83		9190	9263	9335	9408	9480	9551	9622	9693	9764	3
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85		0542	0714	0787	0859	0932	1004	1077	1149	1222	5
86		1367	1440	1512	1585	1657	1730	1802	1875	1947	6
87		2093	2165	2238	2310	2383	2455	2528	2600	2673	7
88		2818	2890	2963	3035	3108	3181	3253	3326	3398	8
89		3543	3616	3688	3761	3833	3906	3978	4051	4123	9
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91		4993	5066	5138	5211	5283	5356	5428	5501	5573	
92		5718	5791	5863	5936	6008	6080	6153	6225	6298	
93		6443	6515	6588	6660	6733	6805	6878	6950	7022	
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97	778	0065	0137	0209	0282	0354	0427	0499	0571	0644	
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02		2960	3032	3105	3177	3249	3322	3394	3467	3539	
03		3683	3756	3828	3900	3973	4045	4118	4190	4263	
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05		5833	5905	5978	6050	6123	6195	6268	6340	6413	
06		6576	6649	6721	6794	6866	6939	7011	7084	7157	
07		7299	7372	7444	7517	7589	7662	7735	7807	7880	
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16		3078	3150	3223	3295	3367	3439	3511	3584	3656	
17		3800	3872	3944	4017	4089	4161	4233	4305	4378	
18		4522	4594	4666	4738	4810	4883	4955	5027	5099	
19		5243	5316	5388	5460	5532	5604	5677	5749	5821	
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21		6684	6756	6828	6900	6972	7044	7116	7188	7260	
22		7405	7477	7549	7621	7693	7765	7837	7909	7981	
23		8129	8201	8273	8345	8417	8489	8561	8633	8705	
24		8850	8922	8994	9066	9138	9210	9282	9354	9426	
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26		1012	1084	1156	1228	1300	1372	1444	1516	1588	
27		1730	1804	1877	1949	2021	2093	2165	2237	2309	
28		2453	2525	2597	2669	2741	2813	2885	2957	3029	
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35		7492	7564	7636	7708	7780	7852	7924	7996	8068	
36		8212	8284	8356	8428	8500	8572	8644	8716	8788	
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41	1088	1160	1232	1304	1376	1448	1520	1592	1663	1735	
42	1807	1879	1951	2023	2095	2167	2238	2310	2382	2454	
43	2526	2598	2670	2742	2813	2885	2957	3029	3101	3173	
44	3245	3316	3388	3460	3532	3604	3676	3748	3819	3891	
6045	3953	4025	4107	4179	4250	4322	4394	4466	4538	4610	
46	4681	4753	4825	4897	4969	5041	5112	5184	5256	5328	
47	5400	5472	5543	5615	5687	5759	5831	5902	5974	6046	
48	6118	6190	6261	6333	6405	6477	6549	6620	6692	6764	
49	6836	6908	6979	7051	7123	7195	7267	7338	7410	7482	
6050	7554	7626	7697	7769	7841	7913	7984	8056	8128	8200	
51	8272	8343	8415	8487	8559	8630	8702	8774	8846	8917	
52	8989	9061	9133	9204	9276	9348	9420	9491	9563	9635	
53	9707	9778	9850	9922	9994	0065	0137	0209	0281	0352	
54	0424	0496	0568	0639	0711	0783	0855	0926	0998	1070	
6055	1141	1213	1285	1357	1428	1500	1572	1644	1715	1787	
56	1859	1930	2002	2074	2146	2217	2289	2361	2432	2504	
57	2576	2647	2719	2791	2863	2934	3006	3078	3149	3221	
58	3293	3364	3436	3508	3579	3651	3723	3794	3866	3938	
59	4010	4081	4153	4225	4296	4368	4440	4511	4583	4655	
6060	4726	4798	4870	4941	5013	5085	5156	5228	5300	5371	
61	5443	5514	5586	5658	5729	5801	5873	5944	6016	6088	
62	6159	6231	6303	6374	6446	6518	6589	6661	6732	6804	
63	6876	6947	7019	7091	7162	7234	7304	7377	7449	7520	
64	7592	7664	7735	7807	7878	7950	8022	8093	8165	8236	
6065	8308	8380	8451	8523	8594	8666	8738	8809	8881	8952	
66	9024	9096	9167	9239	9310	9382	9454	9525	9597	9668	
67	9740	9812	9883	9955	0026	0098	0169	0241	0313	0384	
68	0456	0527	0599	0670	0742	0814	0885	0957	1028	1100	
69	1171	1243	1314	1386	1458	1529	1601	1672	1744	1815	
6070	1887	1958	2030	2102	2173	2245	2316	2388	2459	2531	
71	2602	2674	2745	2817	2888	2959	3030	3101	3173	3244	
72	3318	3389	3461	3532	3604	3675	3747	3818	3889	3961	
73	4033	4104	4176	4247	4319	4390	4462	4533	4605	4676	
74	4748	4819	4891	4962	5034	5105	5177	5248	5320	5391	
6075	5453	5534	5605	5677	5749	5820	5892	5963	6035	6106	
76	6178	6249	6321	6392	6464	6535	6606	6678	6749	6821	
77	6892	6964	7035	7107	7178	7250	7321	7393	7464	7536	
78	7607	7678	7750	7821	7893	7964	8036	8107	8179	8250	
79	8321	8393	8464	8536	8607	8679	8750	8821	8893	8964	
6080	9036	9107	9179	9250	9322	9393	9464	9535	9607	9678	
81	9750	9821	9893	9964	0036	0107	0179	0250	0321	0393	
82	0464	0536	0607	0678	0750	0821	0893	0964	1035	1107	
83	1178	1250	1321	1392	1464	1535	1607	1678	1749	1821	
84	1892	1963	2035	2106	2178	2249	2320	2392	2463	2534	
6085	2606	2677	2749	2820	2891	2963	3034	3105	3177	3248	
86	3319	3391	3462	3534	3605	3676	3748	3819	3890	3962	
87	4033	4104	4176	4247	4318	4390	4461	4532	4604	4675	
88	4746	4818	4889	4960	5032	5103	5174	5246	5317	5388	
89	5460	5531	5602	5674	5745	5816	5888	5959	6030	6102	
6090	6173	6244	6316	6387	6458	6529	6601	6672	6743	6815	
91	6886	6957	7029	7100	7171	7242	7314	7385	7456	7528	
92	7599	7670	7742	7813	7884	7955	8027	8098	8169	8241	
93	8312	8383	8454	8526	8597	8668	8739	8811	8882	8953	
94	9024	9096	9167	9238	9310	9381	9452	9523	9595	9666	
6095	9737	9808	9880	9951	0022	0093	0165	0236	0307	0378	
96	0450	0521	0592	0663	0735	0806	0877	0948	1019	1091	
97	1162	1233	1304	1376	1447	1518	1589	1661	1732	1803	
98	1874	1945	2017	2088	2160	2230	2301	2373	2444	2515	
99	2526	2598	2670	2742	2813	2885	2957	3029	3101	3173	
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01	4010	4081	4153	4224	4295	4366	4437	4509	4580	4651	
02	4722	4793	4864	4935	5007	5078	5149	5220	5291	5362	
03	5434	5505	5576	5647	5718	5789	5860	5931	6002	6073	
04	6145	6216	6288	6359	6430	6501	6572	6643	6714	6786	
6105	6857	6928	6999	7070	7141	7212	7283	7355	7426	7497	
06	7568	7639	7710	7781	7852	7923	7995	8066	8137	8208	
07	8279	8350	8421	8493	8564	8636	8707	8778	8849	8920	
08	8990	9061	9132	9204	9275	9346	9417	9488	9559	9630	
09	786 9701	9772	9843	9915	9986	0057	0128	0199	0270	0341	
6110	0412	0483	0554	0625	0696	0767	0839	0910	0981	1052	
11	1123	1194	1265	1336	1407	1478	1549	1620	1691	1762	
12	1833	1905	1976	2047	2118	2189	2260	2331	2402	2473	
13	2544	2615	2686	2757	2828	2899	2970	3041	3112	3183	
14	3254	3325	3396	3467	3538	3609	3681	3752	3823	3894	
6115	3965	4036	4107	4178	4249	4320	4391	4462	4533	4604	
16	4675	4746	4817	4888	4959	5030	5101	5172	5243	5314	
17	5385	5456	5527	5598	5669	5740	5811	5882	5953	6024	
18	6095	6166	6237	6308	6379	6450	6521	6592	6663	6734	
19	6805	6876	6946	7017	7088	7159	7230	7301	7372	7443	
6120	7514	7585	7656	7727	7798	7869	7940	8011	8082	8153	
21	8224	8295	8366	8437	8508	8579	8649	8720	8791	8862	
22	8933	9004	9075	9146	9217	9288	9359	9430	9501	9572	
23	9643	9714	9785	9856	9926	9997	0068	0139	0210	0281	
24	786 0352	0423	0494	0565	0636	0706	0777	0848	0919	0990	
6125	1061	1132	1203	1274	1345	1415	1486	1557	1628	1699	
26	1770	1841	1912	1983	2053	2124	2195	2266	2337	2408	
27	2479	2550	2621	2691	2762	2833	2904	2975	3046	3117	
28	3188	3258	3329	3400	3471	3542	3613	3684	3755	3826	
29	3896	3967	4038	4109	4180	4250	4321	4392	4463	4534	
6130	4605	4676	4746	4817	4888	4959	5030	5101	5172	5243	
31	5313	5384	5455	5526	5596	5667	5738	5809	5880	5951	
32	6021	6092	6163	6234	6305	6376	6446	6517	6588	6659	
33	6730	6800	6871	6942	7013	7084	7155	7226	7296	7367	
34	7438	7509	7579	7650	7721	7792	7863	7933	8004	8075	
6135	8146	8216	8287	8358	8429	8500	8570	8641	8712	8783	
36	8854	8924	8995	9066	9137	9207	9278	9349	9420	9490	
37	786 9561	9632	9703	9774	9844	9915	9986	0057	0127	0198	
38	0269	0340	0410	0481	0552	0623	0693	0764	0835	0906	
39	0976	1047	1118	1189	1259	1330	1401	1472	1542	1613	
6140	1684	1754	1825	1896	1967	2037	2108	2179	2250	2320	
41	2391	2462	2532	2603	2674	2745	2815	2886	2957	3027	
42	3098	3169	3240	3310	3381	3452	3522	3593	3664	3734	
43	3805	3876	3947	4017	4088	4159	4229	4300	4371	4441	
44	4512	4583	4653	4724	4795	4865	4936	5007	5078	5148	
6145	5219	5290	5360	5431	5502	5572	5643	5714	5784	5855	
46	5926	5996	6067	6138	6208	6279	6350	6420	6491	6561	
47	6632	6703	6773	6844	6915	6985	7056	7127	7197	7268	
48	7333	7404	7475	7545	7616	7687	7757	7828	7898	7969	
49	8045	8116	8186	8257	8327	8398	8469	8539	8610	8681	
6150	8751	8822	8892	8963	9034	9104	9175	9245	9316	9387	
51	786 9497	9568	9638	9709	9779	9810	9881	9951	0022	0093	
52	0163	0234	0304	0375	0446	0516	0587	0657	0728	0799	
53	0869	0940	1010	1081	1151	1222	1293	1363	1434	1504	
54	1575	1645	1716	1787	1857	1928	1999	2069	2139	2210	
6155	2281	2351	2422	2492	2563	2633	2704	2774	2845	2916	
56	2986	3057	3127	3198	3268	3339	3409	3480	3550	3621	
57	3692	3762	3833	3903	3974	4044	4115	4185	4256	4326	
58	4397	4467	4538	4608	4679	4749	4820	4890	4961	5032	
59	5102	5173	5243	5314	5384	5455	5525	5596	5666	5737	
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61		5814	5885	5955	6025	6095	6165	6235	6305	6375	7145	14
62		7217	7287	7358	7428	7499	7569	7640	7710	7781	7851	21
63		7922	7992	8063	8133	8204	8274	8344	8415	8485	8556	28
64		8565	8635	8707	8778	8848	8919	8989	9060	9130	9200	35
6165		9331	9401	9472	9542	9613	9683	9753	9824	9894	9965	42
66	790	0006	0105	0175	0247	0317	0387	0458	0528	0599	0669	49
67		0739	0810	0880	0951	1021	1092	1162	1233	1303	1373	56
68		1444	1514	1584	1655	1725	1795	1866	1936	2007	2077	63
69		2148	2218	2288	2359	2429	2500	2570	2640	2711	2781	70
6170		2852	2922	2992	3063	3133	3204	3274	3344	3415	3485	77
71		3555	3625	3695	3767	3837	3907	3978	4048	4118	4189	84
72		4259	4329	4400	4470	4541	4611	4681	4752	4822	4892	91
73		4963	5033	5103	5174	5244	5315	5385	5456	5526	5596	
74		5666	5737	5807	5877	5948	6018	6088	6159	6229	6299	
75		6370	6440	6510	6581	6651	6721	6792	6862	6932	7002	
76		7073	7143	7214	7284	7354	7424	7495	7565	7635	7705	
77		7776	7846	7917	7987	8057	8128	8198	8268	8338	8409	
78		8479	8549	8620	8690	8760	8831	8901	8971	9041	9112	
79		9182	9252	9323	9393	9463	9533	9604	9674	9744	9814	
6180	791	9885	9955	0025	0095	0165	0235	0305	0375	0445	0517	
81		0587	0657	0728	0798	0868	0939	1009	1079	1150	1220	
82		1290	1360	1431	1501	1571	1641	1711	1782	1852	1922	
83		1992	2063	2133	2203	2273	2344	2414	2484	2554	2625	
84		2695	2765	2835	2905	2975	3045	3115	3185	3255	3327	
6185		3397	3467	3537	3608	3678	3748	3818	3889	3959	4029	
86		4099	4169	4240	4310	4380	4450	4520	4591	4661	4731	
87		4801	4871	4942	5012	5082	5152	5222	5292	5362	5433	
88		5503	5573	5643	5714	5784	5854	5924	5994	6064	6135	
89		6205	6275	6345	6415	6486	6556	6626	6696	6766	6836	
6190		6905	6977	7047	7117	7187	7257	7327	7397	7468	7538	
91		7608	7678	7748	7818	7889	7959	8029	8099	8169	8239	
92		8309	8379	8450	8520	8590	8660	8730	8800	8871	8941	
93		9011	9081	9151	9221	9291	9361	9432	9502	9572	9642	
94	792	9712	9782	9852	9922	9992	0063	0133	0203	0273	0343	
6195		0413	0483	0553	0623	0694	0764	0834	0904	0974	1044	
96		1114	1184	1254	1324	1394	1465	1535	1605	1675	1745	
97		1815	1885	1955	2025	2095	2165	2235	2305	2375	2445	
98		2515	2585	2656	2726	2796	2866	2936	3006	3076	3146	
99		3216	3286	3356	3427	3497	3567	3637	3707	3777	3847	
6200		3917	3987	4057	4127	4197	4267	4337	4407	4477	4547	
01		4617	4687	4757	4827	4897	4967	5038	5108	5178	5248	
02		5318	5388	5458	5528	5598	5668	5738	5808	5878	5948	
03		6018	6088	6158	6228	6298	6368	6438	6508	6578	6648	
04		6718	6788	6858	6928	6998	7068	7138	7208	7278	7348	
6205		7418	7488	7558	7628	7698	7768	7838	7908	7978	8048	
06		8118	8188	8258	8328	8398	8468	8538	8608	8678	8748	
07		8817	8887	8957	9027	9097	9167	9237	9307	9377	9447	
08	793	9517	9587	9657	9727	9797	9867	9937	0007	0077	0147	
09		0217	0287	0356	0426	0496	0566	0636	0706	0776	0846	
6210		0916	0986	1056	1126	1196	1266	1336	1406	1476	1546	
11		1615	1685	1755	1825	1895	1965	2035	2105	2175	2245	
12		2314	2384	2454	2524	2594	2664	2734	2804	2874	2944	
13		3014	3083	3153	3223	3293	3363	3433	3503	3573	3643	
14		3712	3782	3852	3922	3992	4062	4132	4202	4272	4342	
6215		4411	4481	4551	4621	4691	4761	4831	4901	4971	5040	
16		5110	5180	5250	5320	5390	5460	5530	5600	5670	5739	
17		5839	5909	5979	6048	6118	6188	6258	6327	6397	6467	
18		6507	6577	6647	6717	6787	6856	6926	6996	7066	7136	
19		7205	7275	7345	7415	7485	7555	7625	7695	7764	7834	
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01		8004	8074	8144	8214	8284	8354	8424	8494	8564	1
02		8030	8100	8170	8240	8310	8380	8450	8520	8590	2
03	794	8098	8168	8238	8308	8378	8448	8518	8588	8658	3
04		8066	8136	8206	8276	8346	8416	8486	8556	8626	4
05		8092	8162	8232	8302	8372	8442	8512	8582	8652	5
06		8118	8188	8258	8328	8398	8468	8538	8608	8678	6
07		8144	8214	8284	8354	8424	8494	8564	8634	8704	7
08		8170	8240	8310	8380	8450	8520	8590	8660	8730	8
09		8196	8266	8336	8406	8476	8546	8616	8686	8756	9
6010		8222	8292	8362	8432	8502	8572	8642	8712	8782	
11		8248	8318	8388	8458	8528	8598	8668	8738	8808	
12		8274	8344	8414	8484	8554	8624	8694	8764	8834	
13		8300	8370	8440	8510	8580	8650	8720	8790	8860	
14		8326	8396	8466	8536	8606	8676	8746	8816	8886	
6020		8352	8422	8492	8562	8632	8702	8772	8842	8912	
21		8378	8448	8518	8588	8658	8728	8798	8868	8938	
22		8404	8474	8544	8614	8684	8754	8824	8894	8964	
23		8430	8500	8570	8640	8710	8780	8850	8920	8990	
24		8456	8526	8596	8666	8736	8806	8876	8946	9016	
6030		8482	8552	8622	8692	8762	8832	8902	8972	9042	
31		8508	8578	8648	8718	8788	8858	8928	8998	9068	
32		8534	8604	8674	8744	8814	8884	8954	9024	9094	
33		8560	8630	8700	8770	8840	8910	8980	9050	9120	
34		8586	8656	8726	8796	8866	8936	9006	9076	9146	
6040		8612	8682	8752	8822	8892	8962	9032	9102	9172	
41		8638	8708	8778	8848	8918	8988	9058	9128	9198	
42		8664	8734	8804	8874	8944	9014	9084	9154	9224	
43		8690	8760	8830	8900	8970	9040	9110	9180	9250	
44		8716	8786	8856	8926	8996	9066	9136	9206	9276	
6050		8742	8812	8882	8952	9022	9092	9162	9232	9302	
51		8768	8838	8908	8978	9048	9118	9188	9258	9328	
52		8794	8864	8934	9004	9074	9144	9214	9284	9354	
53		8820	8890	8960	9030	9100	9170	9240	9310	9380	
54		8846	8916	8986	9056	9126	9196	9266	9336	9406	
6060		8872	8942	9012	9082	9152	9222	9292	9362	9432	
61		8898	8968	9038	9108	9178	9248	9318	9388	9458	
62		8924	8994	9064	9134	9204	9274	9344	9414	9484	
63		8950	9020	9090	9160	9230	9300	9370	9440	9510	
64		8976	9046	9116	9186	9256	9326	9396	9466	9536	
6070		9002	9072	9142	9212	9282	9352	9422	9492	9562	
71		9028	9098	9168	9238	9308	9378	9448	9518	9588	
72		9054	9124	9194	9264	9334	9404	9474	9544	9614	
73		9080	9150	9220	9290	9360	9430	9500	9570	9640	
74		9106	9176	9246	9316	9386	9456	9526	9596	9666	
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83	1671	1740	1809	1878	1947	2016	2085	2154	2223	2292	2361
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96	1270	1339	1408	1477	1546	1615	1684	1753	1822	1891	1960
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98	2652	2721	2790	2859	2928	2997	3066	3135	3204	3273	3342
99	3343	3412	3481	3550	3619	3688	3757	3826	3895	3964	4033
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03	6107	6176	6245	6314	6383	6452	6521	6590	6659	6728	6797
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06	8871	8940	9009	9078	9147	9216	9285	9354	9423	9492	9561
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13	3708	3777	3846	3915	3984	4053	4122	4191	4260	4329	4398
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34	9605	9674	9743	9812	9881	9950	0019	0088	0157	0226	0295
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35	0987	1056	1125	1194	1263	1332	1401	1470	1539	1608	1677
36	1678	1747	1816	1885	1954	2023	2092	2161	2230	2299	2368
37	2369	2438	2507	2576	2645	2714	2783	2852	2921	2990	3059
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42		2252	2331	2409	2488	2566	2645	2724	2803	2882	2961
43		2947	3016	3084	3153	3221	3289	3358	3426	3495	3563
44		3632	3700	3769	3837	3906	3974	4042	4111	4179	4248
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45		5001	5069	5138	5206	5274	5343	5411	5480	5548	5617
46		5685	5753	5822	5890	5959	6027	6096	6164	6232	6301
47		6365	6433	6502	6570	6639	6707	6776	6844	6913	6981
48		7053	7122	7190	7258	7327	7395	7464	7532	7600	7669
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55		1839	1907	1975	2044	2112	2181	2249	2317	2385	2454
56		2522	2590	2659	2727	2795	2864	2932	3000	3069	3137
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61		5254	5322	5391	5459	5527	5595	5664	5732	5800	5868
62		5937	6005	6073	6141	6210	6278	6346	6414	6483	6551
63		6619	6687	6755	6824	6892	6960	7028	7097	7165	7233
64		7302	7370	7438	7506	7575	7643	7711	7779	7848	7916
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65		8666	8735	8803	8871	8939	9007	9076	9144	9212	9280
66		9348	9417	9485	9553	9621	9690	9758	9826	9894	9962
67											
68	804	0031	0099	0167	0235	0303	0372	0440	0508	0576	0644
69		0712	0781	0849	0917	0985	1053	1122	1190	1258	1326
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71		2076	2144	2212	2281	2349	2417	2485	2553	2621	2690
72		2758	2826	2894	2962	3030	3098	3167	3235	3303	3371
73		3439	3507	3575	3643	3712	3780	3848	3916	3984	4052
74		4121	4189	4257	4325	4393	4461	4529	4597	4665	4734
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76		6164	6232	6300	6368	6437	6505	6573	6641	6709	6777
77		6845	6913	6981	7049	7118	7186	7254	7322	7390	7458
78		7526	7594	7662	7730	7798	7866	7934	8002	8071	8139
79											
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84		0929	0997	1065	1133	1201	1269	1337	1405	1473	1541
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85		2289	2357	2425	2493	2561	2629	2697	2765	2833	2901
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87		3649	3717	3785	3853	3921	3989	4057	4125	4193	4261
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93		7047	7115	7183	7251	7319	7387	7455	7523	7590	7658
94		7726	7794	7862	7930	7998	8066	8134	8202	8270	8338
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03		3835	3903	3971	4038	4106	4174	4242	4310	4378	21
04		4513	4581	4649	4717	4785	4853	4921	4989	5057	28
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06		5855	5923	5991	6059	6127	6195	6263	6331	6399	42
07		6547	6615	6683	6751	6819	6887	6955	7023	7091	49
08		7225	7293	7361	7429	7497	7565	7633	7701	7769	56
09		7953	8021	8089	8157	8225	8293	8361	8429	8497	63
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11		9255	9323	9391	9459	9527	9595	9663	9731	9799	77
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13		0618	0686	0754	0822	0890	0958	1026	1094	1162	91
14		1220	1287	1355	1423	1491	1559	1627	1695	1763	98
6415		1907	2034	2102	2170	2237	2305	2373	2441	2509	105
16		2644	2712	2780	2848	2916	2984	3052	3120	3188	112
17		3320	3388	3456	3524	3592	3660	3728	3796	3864	119
18		3997	4065	4133	4201	4269	4337	4405	4473	4541	126
19		4674	4742	4810	4878	4946	5014	5082	5150	5218	133
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21		6007	6075	6143	6211	6279	6347	6415	6483	6551	147
22		6703	6771	6839	6907	6975	7043	7111	7179	7247	154
23		7392	7460	7528	7596	7664	7732	7800	7868	7936	161
24		8065	8133	8201	8269	8337	8405	8473	8541	8609	168
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26	808	9407	9475	9543	9611	9679	9747	9815	9883	9951	182
27		0083	0151	0219	0287	0355	0423	0491	0559	0627	189
28		0759	0827	0895	0963	1031	1099	1167	1235	1303	196
29		1434	1502	1570	1638	1706	1774	1842	1910	1978	203
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31		2785	2853	2921	2989	3057	3125	3193	3261	3329	217
32		3460	3528	3596	3664	3732	3800	3868	3936	4004	224
33		4136	4204	4272	4340	4408	4476	4544	4612	4680	231
34		4811	4879	4947	5015	5083	5151	5219	5287	5355	238
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36		6160	6228	6296	6364	6432	6500	6568	6636	6704	252
37		6835	6903	6971	7039	7107	7175	7243	7311	7379	259
38		7510	7578	7646	7714	7782	7850	7918	7986	8054	266
39		8184	8252	8320	8388	8456	8524	8592	8660	8728	273
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47		3677	3745	3813	3881	3949	4017	4085	4153	4221	329
48		4250	4318	4386	4454	4522	4590	4658	4726	4794	336
49		4924	4992	5060	5128	5196	5264	5332	5400	5468	343
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57		0308	0376	0444	0512	0580	0648	0716	0784	0852	399
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16	11025	11089	11153	11217	11281	11345	11409	11473	11537	11601	98
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21	14225	14289	14353	14417	14481	14545	14609	14673	14737	14801	128
22	14865	14929	14993	15057	15121	15185	15249	15313	15377	15441	134
23	15505	15569	15633	15697	15761	15825	15889	15953	16017	16081	140
24	16145	16209	16273	16337	16401	16465	16529	16593	16657	16721	146
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26	17425	17489	17553	17617	17681	17745	17809	17873	17937	18001	158
27	18065	18129	18193	18257	18321	18385	18449	18513	18577	18641	164
28	18705	18769	18833	18897	18961	19025	19089	19153	19217	19281	170
29	19345	19409	19473	19537	19601	19665	19729	19793	19857	19921	176
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31	20625	20689	20753	20817	20881	20945	21009	21073	21137	21201	188
32	21265	21329	21393	21457	21521	21585	21649	21713	21777	21841	194
33	21905	21969	22033	22097	22161	22225	22289	22353	22417	22481	200
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38	25105	25169	25233	25297	25361	25425	25489	25553	25617	25681	230
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51	33425	33489	33553	33617	33681	33745	33809	33873	33937	34001	308
52	34065	34129	34193	34257	34321	34385	34449	34513	34577	34641	314
53	34705	34769	34833	34897	34961	35025	35089	35153	35217	35281	320
54	35345	35409	35473	35537	35601	35665	35729	35793	35857	35921	326
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56	36625	36689	36753	36817	36881	36945	37009	37073	37137	37201	338
57	37265	37329	37393	37457	37521	37585	37649	37713	37777	37841	344
58	37905	37969	38033	38097	38161	38225	38289	38353	38417	38481	350
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63		1394	1458	1522	1587	1651	1715	1779	1843	1908	1972
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68		4604	4668	4732	4796	4860	4924	4988	5053	5117	5181
69		5245	5309	5373	5438	5502	5566	5630	5694	5758	5823
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71		6528	6592	6656	6721	6785	6849	6913	6977	7041	7105
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82		3578	3642	3706	3770	3834	3898	3962	4026	4090	4154
83		4218	4282	4346	4410	4474	4538	4602	4666	4730	4794
84		4858	4922	4986	5050	5114	5178	5242	5306	5371	5435
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86		6139	6203	6267	6331	6395	6459	6523	6587	6651	6715
87		6778	6842	6906	6970	7034	7098	7162	7226	7290	7354
88		7418	7482	7546	7610	7674	7738	7802	7866	7930	7994
89		8058	8122	8186	8250	8314	8378	8442	8506	8570	8634
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91		9337	9401	9465	9529	9593	9657	9721	9785	9849	9913
92	832	9977	0041	0105	0169	0233	0297	0361	0425	0489	0553
93		0616	0680	0744	0808	0872	0936	1000	1064	1128	1192
94		1255	1319	1383	1447	1511	1575	1639	1703	1767	1831
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96		2534	2598	2662	2726	2790	2853	2917	2981	3045	3109
97		3173	3237	3301	3364	3428	3492	3556	3620	3684	3748
98		3812	3876	3939	4003	4067	4131	4195	4259	4323	4387
99		4480	4544	4608	4672	4736	4799	4863	4927	4991	5055
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01		5758	5822	5886	5950	6014	6078	6142	6206	6270	6334
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42		1831	1894	1958	2021	2085	2148	2212	2275	2338	2402	
43		2465	2529	2592	2656	2719	2783	2846	2910	2973	3037	
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22		6020	6081	6142	6203	6264	6325	6386	6447	6508	18
23		6630	6691	6752	6813	6874	6935	6996	7057	7118	24
24		7239	7300	7361	7422	7483	7544	7605	7666	7727	30
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25		8458	8519	8580	8641	8702	8763	8824	8885	8946	42
26		9055	9116	9177	9238	9299	9360	9421	9482	9543	48
27	883	9677	9738	9799	9860	9921	9982	10043	10104	10165	54
28		10285	10347	10408	10469	10530	10591	10652	10713	10774	60
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31		11504	11565	11626	11687	11748	11809	11870	11931	11992	72
32		12113	12174	12235	12296	12357	12418	12479	12540	12601	78
33		12722	12783	12844	12905	12966	13027	13088	13149	13210	84
34		13321	13382	13443	13504	13565	13626	13687	13748	13809	90
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35		14548	14609	14670	14731	14792	14853	14914	14975	15036	
36		15137	15198	15259	15320	15381	15442	15503	15564	15625	
37		15726	15787	15848	15909	15970	16031	16092	16153	16214	
38		16314	16375	16436	16497	16558	16619	16680	16741	16802	
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41		18009	18130	18251	18372	18493	18614	18735	18856	18977	
42		19118	19239	19360	19481	19602	19723	19844	19965	20086	
43		20205	20326	20447	20568	20689	20810	20931	21052	21173	
44		21314	21435	21556	21677	21798	21919	22040	22161	22282	
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45		23650	23771	23892	24013	24134	24255	24376	24497	24618	
46		24819	24940	25061	25182	25303	25424	25545	25666	25787	
47		25948	26069	26190	26311	26432	26553	26674	26795	26916	
48		27137	27258	27379	27500	27621	27742	27863	27984	28105	
49		28286	28407	28528	28649	28770	28891	29012	29133	29254	
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69		53609	53730	53851	53972	54093	54214	54335	54456	54577	
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76		63022	63143	63264	63385	63506	63627	63748	63869	63990	
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82	2454	2514	2575	2635	2696	2756	2817	2877	2938	2999	2 12
83	3059	3119	3180	3240	3301	3361	3421	3482	3542	3603	3 18
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7185	4268	4328	4389	4449	4509	4570	4630	4691	4751	4812	5 31
85	4872	4933	4993	5053	5114	5174	5235	5295	5356	5416	6 37
86	5476	5537	5597	5658	5718	5779	5839	5899	5960	6020	7 43
87	6081	6141	6202	6262	6322	6383	6443	6504	6564	6624	8 49
88	6685	6745	6805	6866	6926	6987	7047	7108	7168	7229	9 55
7190	7289	7349	7410	7470	7531	7591	7651	7712	7772	7832	
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07	8148	8208	8268	8329	8389	8449	8509	8570	8630	8690	
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17	4169	4229	4289	4349	4409	4470	4530	4590	4650	4710	
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21	5973	6034	6094	6154	6214	6274	6334	6394	6455	6515	
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23	7176	7236	7296	7357	7417	7477	7537	7597	7657	7717	
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25	8980	9040	9100	9160	9220	9280	9340	9400	9460	9520	
26	9581	9641	9701	9761	9821	9881	9941	0001	0061	0121	
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46		1583	1643	1703	1763	1823	1883	1943	2003	2063	7
47		2182	2242	2302	2362	2422	2482	2542	2602	2662	8
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53		5177	5237	5297	5356	5416	5476	5536	5596	5656	
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57		8170	8229	8289	8349	8409	8469	8529	8589	8649	
58		8768	8828	8888	8947	9007	9067	9127	9187	9247	
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61		9964	10024	10084	10144	10204	10263	10323	10383	10443	
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65		12954	13014	13073	13133	13193	13253	13313	13373	13433	
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67		14069	14129	14189	14248	14308	14368	14428	14487	14547	
68		14607	14667	14726	14786	14846	14905	14965	15025	15085	
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71		16221	16281	16341	16401	16461	16521	16581	16641	16701	
72		16761	16821	16881	16941	17001	17061	17121	17181	17241	
73		17301	17361	17421	17481	17541	17601	17661	17721	17781	
74		17841	17901	17961	18021	18081	18141	18201	18261	18321	
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76		19461	19521	19581	19641	19701	19761	19821	19881	19941	
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81		22161	22221	22281	22341	22401	22461	22521	22581	22641	
82		22701	22761	22821	22881	22941	23001	23061	23121	23181	
83		23241	23301	23361	23421	23481	23541	23601	23661	23721	
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17	13331	13390	13449	13509	13568	13627	13687	13746	13805	13865	
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19	14517	14577	14636	14695	14755	14814	14873	14933	14992	15051	
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22	16297	16357	16416	16475	16534	16594	16653	16712	16772	16831	
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27	19262	19321	19380	19440	19499	19558	19618	19677	19736	19795	
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32	22225	22284	22343	22402	22461	22521	22580	22639	22698	22758	
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56		35088	35665	36242	36819	37396	37973	38550	39127	39704	40281
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62		63938	64515	65092	65669	66246	66823	67400	67977	68554	69131
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67		98558	99135	99712	100289	100866	101443	102020	102597	103174	103751
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92		31871	31926	31981	32036	32091	32146	32201	32256	32311	32366
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07		0667	0722	0776	0831	0886	0941	0996	1051	1106	1161	44
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76		7851	7906	7960	8015	8069	8124	8178	8233	8287	8341
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82		1117	1172	1226	1280	1335	1389	1444	1498	1552	1607
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87		3837	3891	3946	4000	4054	4109	4163	4217	4272	4326
88		4381	4435	4489	4544	4598	4652	4707	4761	4815	4870
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92		6555	6609	6663	6718	6772	6826	6881	6935	6989	7044
93		7098	7152	7207	7261	7315	7370	7424	7478	7533	7587
94		7641	7696	7750	7804	7859	7913	7967	8021	8076	8130
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86		7337	7391	7445	7498	7552	7606	7659	7713	7767	7821
87		7874	7928	7982	8036	8089	8143	8197	8250	8304	8358
88		8411	8465	8519	8573	8626	8680	8734	8787	8841	8895
89		8948	9002	9056	9109	9163	9217	9270	9324	9378	9432
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91	908	0022	0076	0129	0183	0237	0290	0344	0398	0451	0505
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93		1095	1149	1203	1256	1310	1364	1417	1471	1525	1578
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31		1440	1493	1546	1600	1653	1707	1760	1813	1867	1920
32		1974	2027	2081	2134	2187	2241	2294	2348	2401	2454
33		2508	2561	2615	2668	2721	2775	2828	2882	2935	2988
34		3042	3095	3148	3202	3255	3309	3362	3415	3469	3522
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17		7133	7186	7239	7292	7344	7397	7450	7503	7556	81
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19		8190	8243	8296	8348	8401	8454	8507	8560	8613	91
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21		9246	9299	9352	9405	9458	9511	9564	9617	9669	99
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32		5054	5106	5159	5212	5265	5317	5370	5423	5476	50
33		5581	5634	5687	5739	5792	5845	5898	5950	6003	55
34		6109	6161	6214	6267	6320	6372	6425	6478	6531	60
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37		7691	7743	7796	7849	7902	7954	8007	8060	8112	75
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39		8745	8798	8850	8903	8956	9009	9061	9114	9167	85
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44		1380	1433	1485	1538	1591	1643	1696	1749	1801	20
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58		8749	8801	8854	8907	8959	9012	9064	9117	9169	90
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63		1378	1430	1483	1535	1588	1640	1693	1745	1798	16
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82		1352	1405	1457	1510	1562	1614	1667	1719	1772	43
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87		5407	5459	5511	5564	5616	5668	5720	5772	5824	40
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36		5128	5178	5228	5278	5328	5378	5428	5478	5528	5578
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38		5132	5182	5232	5282	5332	5382	5432	5482	5532	5582
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46		5155	5205	5255	5305	5355	5405	5455	5505	5555	5605
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52		5170	5220	5270	5320	5370	5420	5470	5520	5570	5620
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56		5182	5232	5282	5332	5382	5432	5482	5532	5582	5632
57		5184	5234	5284	5334	5384	5434	5484	5534	5584	5634
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73		5227	5277	5327	5377	5427	5477	5527	5577	5627	5677
74		5229	5279	5329	5379	5429	5479	5529	5579	5629	5679
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75		5234	5284	5334	5384	5434	5484	5534	5584	5634	5684
76		5237	5287	5337	5387	5437	5487	5537	5587	5637	5687
77		5239	5289	5339	5389	5439	5489	5539	5589	5639	5689
78		5242	5292	5342	5392	5442	5492	5542	5592	5642	5692
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36	3126	3176	3226	3275	3325	3375	3425	3474	3524	3574	
37	3623	3673	3723	3772	3822	3872	3922	3971	4021	4071	
38	4120	4170	4220	4270	4319	4369	4419	4468	4518	4568	
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42	6108	6158	6207	6257	6307	6356	6406	6456	6505	6555	2
43	6605	6654	6704	6754	6803	6853	6903	6952	7002	7052	3
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46	8095	8144	8194	8244	8293	8343	8393	8442	8492	8542	6
47	8591	8641	8691	8740	8790	8840	8889	8939	8988	9038	7
48	9088	9137	9187	9237	9286	9336	9386	9435	9485	9535	8
49	9584	9634	9683	9733	9783	9832	9882	9932	9981	0031	9
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52	1073	1123	1172	1222	1272	1321	1371	1420	1470	1520	
53	1569	1619	1668	1718	1768	1817	1867	1917	1966	2016	
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78	3956	4005	4055	4104	4154	4203	4253	4302	4352	4401	
79	4450	4500	4549	4599	4648	4698	4747	4797	4846	4896	
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87	8406	8456	8505	8555	8604	8653	8703	8752	8802	8852	
88	8900	8950	8999	9049	9098	9148	9197	9246	9296	9345	
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93	1371	1420	1470	1519	1568	1618	1667	1716	1766	1815	
94	1865	1914	1963	2013	2062	2112	2161	2210	2260	2309	
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05		7787	7836	7885	7935	7984	8033	8083	8132	8181	8231
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07		8773	8822	8872	8921	8970	9020	9069	9118	9167	9217
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16		4193	4243	4292	4341	4390	4440	4489	4538	4587	4637
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17		5178	5227	5277	5326	5375	5424	5474	5523	5572	5621
18		5671	5720	5769	5818	5867	5917	5966	6015	6064	6114
19		6163	6212	6261	6310	6360	6409	6458	6507	6557	6606
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21		7639	7688	7738	7787	7836	7885	7934	7984	8033	8082
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23		8623	8672	8722	8771	8820	8869	8918	8968	9017	9066
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27		1082	1131	1181	1230	1279	1328	1377	1426	1475	1525
28		1574	1623	1672	1721	1771	1820	1869	1918	1967	2016
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29		2557	2606	2655	2705	2754	2803	2852	2901	2950	2999
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31		3540	3589	3638	3687	3737	3786	3835	3884	3933	3982
32		4031	4080	4130	4179	4228	4277	4326	4375	4424	4474
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34		5505	5554	5603	5652	5702	5751	5800	5849	5898	5947
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36		6487	6536	6585	6635	6684	6733	6782	6831	6880	6929
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37		7469	7518	7568	7617	7666	7715	7764	7813	7862	7911
38		7960	8009	8058	8108	8157	8206	8255	8304	8353	8402
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53		8773	8822	8872	8921	8970	9020	9069	9118	9167	9217
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57		2716	2765	2814	2864	2913	2962	3011	3061	3110	3159
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58		3701	3750	3799	3849	3898	3947	3996	4046	4095	4144
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61		6655	6704	6753	6803	6852	6901	6950	7000	7049	7098
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62		7639	7688	7738	7787	7836	7885	7934	7984	8033	8082
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63		8623	8672	8722	8771	8820	8869	8918	8968	9017	9066
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64		9607	9656	9705	9755	9804	9853	9902	9951	0000	0050
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65		0591	0640	0689	0738	0787	0836	0885	0935	0984	1033
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66		1574	1623	1672	1721	1771	1820	1869	1918	1967	2016
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67		2557	2606	2655	2705	2754	2803	2852	2901	2950	2999
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68		3540	3589	3638	3687	3737	3786	3835	3884	3933	3982
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69		4523	4572	4621	4670	4719	4768	4817	4867	4916	4965
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70		5505	5554	5603	5652	5702	5751	5800	5849	5898	5947
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71		6487	6536	6585	6635	6684	6733	6782	6831	6880	6929
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72		7469	7518	7568	7617	7666	7715	7764	7813	7862	7911
8980		7960	8009	8058	8108	8157	8206	8255	8304	8353	8402
73		8451	8500	8549	8598	8647	8696	8745	8795	8844	8893
8985		8942	8991	9040	9089	9138	9187	9236	9285	9335	9384
74	949	9433	9482	9531	9580	9629	9678	9727	9776	9825	9874
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63		4389	4438	4487	4536	4585	4634	4683	4732	4781	4830
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68		4790	4839	4888	4937	4986	5035	5084	5133	5182	5231
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71	948	5237	5286	5335	5384	5433	5482	5531	5580	5629	5678
72		5238	5287	5336	5385	5434	5483	5532	5581	5630	5679
73		5239	5288	5337	5386	5435	5484	5533	5582	5631	5680
74		5240	5289	5338	5387	5436	5485	5534	5583	5632	5681
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76		5685	5734	5783	5832	5881	5930	5979	6028	6077	6126
77		5686	5735	5784	5833	5882	5931	5980	6029	6078	6127
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82		6132	6181	6230	6279	6328	6377	6426	6475	6524	6573
83		6133	6182	6231	6280	6329	6378	6427	6476	6525	6574
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88		6579	6628	6677	6726	6775	6824	6873	6922	6971	7020
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12		8808	8857	8906	8955	9004	9053	9102	9151	9200	9249
13		8809	8858	8907	8956	9005	9054	9103	9152	9201	9250
14		8810	8859	8908	8957	9006	9055	9104	9153	9202	9251
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16		9253	9302	9351	9400	9449	9498	9547	9596	9645	9694
17		9254	9303	9352	9401	9450	9499	9548	9597	9646	9695
18		9255	9304	9353	9402	9451	9500	9549	9598	9647	9696
19		9256	9305	9354	9403	9452	9501	9550	9599	9648	9697
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22	4622	4671	4720	4768	4817	4866	4914	4963	5012	5060	2
23	5109	5158	5206	5255	5304	5352	5401	5450	5498	5547	3
24	5595	5644	5693	5742	5790	5839	5888	5936	5985	6034	4
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25	6569	6617	6666	6715	6763	6812	6861	6909	6958	7007	6
26	7055	7104	7153	7201	7250	7299	7347	7396	7445	7493	7
27	7542	7590	7639	7688	7736	7785	7834	7882	7931	7980	8
28	8028	8077	8126	8174	8223	8271	8320	8369	8417	8466	9
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31	9001	9050	9098	9147	9195	9244	9293	9341	9390	9438	
32	9487	9536	9584	9633	9682	9730	9779	9827	9876	9925	
33	9973	0022	0071	0119	0168	0216	0265	0314	0362	0411	
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35	1432	1480	1529	1577	1626	1675	1723	1772	1820	1869	
36	1918	1966	2015	2063	2112	2161	2209	2258	2306	2355	
37	2404	2452	2501	2549	2598	2646	2695	2744	2792	2841	
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43	4832	4881	4929	4978	5027	5075	5124	5172	5221	5269	
44	5318	5366	5415	5464	5512	5561	5609	5658	5706	5755	
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46	6774	6823	6871	6920	6969	7017	7066	7114	7163	7211	
47	7260	7308	7357	7405	7454	7502	7551	7599	7648	7697	
48	7745	7794	7842	7891	7939	7988	8036	8085	8133	8182	
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51	8716	8764	8813	8861	8910	8958	9007	9055	9104	9152	
52	9201	9249	9298	9346	9395	9443	9492	9540	9589	9637	
53	9686	9734	9783	9831	9880	9928	9977	0025	0074	0122	
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56	1626	1674	1723	1771	1820	1868	1917	1965	2014	2062	
57	2111	2159	2208	2256	2305	2353	2401	2450	2498	2547	
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62	4049	4098	4146	4195	4243	4292	4340	4389	4437	4486	
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72	8893	8941	8989	9038	9086	9135	9183	9231	9280	9328	
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77	1796	1844	1893	1941	1989	2038	2086	2135	2183	2231	
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82	2931	2979	3027	3075	3124	3172	3220	3268	3317	3365	2
83	4214	4262	4311	4359	4407	4455	4504	4552	4601	4649	3
84	4497	4546	4594	4643	4691	4739	4787	4836	4884	4933	4
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86	5664	5712	5761	5809	5857	5905	5954	6002	6051	6099	6
87	6147	6195	6244	6292	6341	6389	6437	6485	6534	6582	7
88	6631	6679	6727	6775	6824	6872	6921	6969	7017	7065	8
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91	8039	8087	8135	8183	8231	8279	8327	8375	8423	8471	
92	8519	8567	8615	8663	8711	8759	8807	8855	8903	8951	
93	9000	9048	9096	9144	9192	9240	9288	9336	9384	9432	
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97	0972	1020	1068	1116	1164	1212	1260	1308	1356	1404	
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03	3852	3900	3948	3996	4044	4092	4140	4188	4236	4284	
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06	5292	5340	5388	5436	5484	5532	5580	5628	5676	5724	
07	5772	5820	5868	5916	5964	6012	6060	6108	6156	6204	
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18	1132	1180	1228	1276	1324	1372	1420	1468	1516	1564	
19	1612	1660	1708	1756	1804	1852	1900	1948	1996	2044	
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21	2547	2595	2643	2691	2739	2787	2835	2883	2931	2979	
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23	3510	3558	3606	3654	3702	3750	3798	3846	3894	3942	
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26	4953	5001	5049	5097	5145	5193	5241	5289	5337	5385	
27	5434	5482	5530	5578	5626	5674	5722	5770	5818	5866	
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2 10

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7 35

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diff.

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46	4255	4293	4331	4369	4407	4445	4483	4521	4559	4597	34
47	4635	4673	4711	4749	4787	4825	4863	4901	4939	4977	38
48	5015	5053	5091	5129	5167	5205	5243	5281	5319	5357	43
49	5395	5433	5471	5509	5547	5585	5623	5661	5699	5737	
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57	9195	9233	9271	9309	9347	9385	9423	9461	9499	9537	
58	9575	9613	9651	9689	9727	9765	9803	9841	9879	9917	
59	9955	9993	10031	10069	10107	10145	10183	10221	10259	10297	
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61	11095	11133	11171	11209	11247	11285	11323	11361	11399	11437	
62	11475	11513	11551	11589	11627	11665	11703	11741	11779	11817	
63	11855	11893	11931	11969	12007	12045	12083	12121	12159	12197	
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37		4573	4619	4664	4710	4755	4801	4846	4892	4937	4983
38		5028	5074	5120	5166	5211	5256	5302	5347	5393	5438
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46		8669	8715	8760	8806	8851	8897	8942	8988	9033	9079
47		9124	9170	9215	9261	9306	9352	9397	9442	9488	9533
48		9579	9624	9670	9715	9761	9806	9852	9897	9943	9988
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67		8212	8257	8302	8348	8393	8439	8484	8529	8575	8620
68		8666	8711	8756	8802	8847	8892	8938	8983	9029	9074
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76		2295	2340	2385	2431	2476	2522	2567	2613	2658	2703
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83		5015	5060	5105	5151	5196	5241	5287	5332	5377	5423	14
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86		6827	6873	6918	6963	7008	7054	7099	7144	7190	7235	32
87		7280	7325	7371	7416	7461	7507	7552	7597	7643	7688	37
88		7733	7778	7824	7869	7914	7960	8005	8050	8095	8141	41
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46	3473	3518	3563	3608	3653	3698	3743	3788	3833	3878	21
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58	8872	8917	8962	9007	9052	9097	9142	9187	9232	9277	69
59	9322	9367	9412	9457	9502	9546	9591	9636	9681	9726	73
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61	0221	0266	0311	0356	0401	0446	0491	0536	0581	0626	81
62	0670	0715	0760	0805	0850	0895	0940	0985	1030	1075	85
63	1120	1165	1210	1255	1300	1345	1390	1434	1479	1524	89
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67	2917	2962	3007	3052	3097	3142	3187	3232	3277	3321	105
68	3366	3411	3456	3501	3546	3591	3636	3681	3726	3771	109
69	3816	3861	3906	3950	3995	4040	4085	4130	4175	4220	113
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71	4714	4759	4804	4849	4893	4938	4983	5028	5073	5118	121
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76	6959	7003	7048	7093	7138	7183	7228	7273	7318	7363	141
77	7407	7452	7497	7542	7587	7632	7677	7722	7767	7811	145
78	7856	7901	7946	7991	8036	8081	8126	8170	8215	8260	149
79	8305	8350	8395	8440	8484	8529	8574	8619	8664	8709	153
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87	1893	1938	1983	2027	2072	2117	2162	2207	2252	2297	185
88	2341	2386	2431	2476	2521	2565	2610	2655	2700	2745	189
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07		0850	0895	0940	0985	1029	1074	1119	1163	1208	1253	32
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39		5144	5188	5233	5277	5322	5367	5411	5456	5500	5545	
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42		6481	6526	6570	6615	6660	6704	6749	6793	6838	6882	
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17	8627	8671	8715	8759	8803	8847	8891	8935	8980	9024	29
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24	1716	1760	1804	1848	1893	1937	1981	2025	2069	2113	17
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57	6251	6295	6339	6383	6427	6471	6515	6559	6603	6647	149
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88		1524	1568	1612	1656	1699	1743	1787	1831	1875	1919
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97		5474	5518	5562	5606	5650	5694	5738	5782	5825	5869
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18		4679	4723	4766	4810	4854	4898	4942	4985	5029	5073
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47		7358	7401	7445	7488	7532	7575	7619	7663	7707	31
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62		3737	3781	3825	3868	3912	3955	3999	4042	4086	
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69		6872	6916	6959	7003	7046	7090	7133	7177	7220	
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71		8046	8089	8133	8176	8220	8263	8307	8350	8394	
72		8437	8481	8524	8568	8611	8655	8698	8742	8785	
73		8829	8873	8916	8960	9003	9047	9090	9134	9177	
74		9221	9265	9308	9352	9395	9439	9482	9526	9569	
9975		9613	9656	9700	9743	9787	9830	9874	9917	9961	
75		0000	0043	0087	0130	0174	0217	0261	0304	0348	
76	999	0435	0479	0522	0566	0609	0653	0696	0740	0783	
77		0826	0870	0914	0957	1001	1044	1088	1131	1175	
78		1218	1262	1305	1349	1392	1436	1479	1523	1567	
79		1610	1654	1697	1741	1785	1828	1872	1916	1959	
9980		2003	2047	2090	2134	2178	2221	2265	2309	2352	
80		2396	2440	2483	2527	2570	2614	2658	2701	2745	
81		2788	2832	2875	2919	2962	3006	3049	3093	3136	
82		3180	3224	3267	3311	3354	3398	3441	3485	3528	
83		3572	3615	3659	3702	3746	3789	3833	3876	3919	
84		3963	4006	4049	4093	4136	4179	4223	4266	4309	
9985		4353	4396	4440	4483	4526	4570	4613	4657	4699	
85		4743	4786	4830	4873	4917	4960	5004	5047	5091	
86		5134	5178	5221	5265	5308	5352	5395	5439	5482	
87		5526	5570	5613	5657	5699	5743	5786	5829	5873	
88		5916	5959	6003	6046	6089	6133	6176	6220	6263	
89		6307	6351	6394	6438	6481	6525	6568	6612	6655	
9990		6699	6742	6785	6829	6872	6916	6959	7003	7046	
90		7090	7133	7177	7220	7264	7307	7351	7394	7438	
91		7481	7525	7568	7612	7655	7699	7742	7785	7829	
92		7872	7916	7959	8003	8046	8090	8133	8177	8220	
93		8264	8308	8351	8395	8438	8482	8525	8569	8612	
94		8656	8699	8743	8786	8829	8873	8916	8959	9003	
9995		9046	9089	9133	9176	9220	9263	9307	9350	9394	
95		9437	9480	9524	9567	9610	9654	9697	9740	9783	
96		9826	9869	9913	9956	10000	10043	10087	10130	10174	
97		10217	10261	10304	10348	10391	10435	10478	10522	10565	
98		10609	10653	10696	10740	10783	10827	10870	10914	10957	
99		11000	11044	11087	11131	11175	11218	11262	11305	11349	
N.	0	1	2	3	4	5	6	7	8	9	

LOGARITHMI

FUNCTIONUM TRIGONOMETRICARUM.

LOGARITHMS

OF THE TRIGONOMETRIC FUNCTIONS.

LOGARITHMES

DES FONCTIONS TRIGONOMETRIQUES.

LOGARITHMEN

DER TRIGONOMETRISCHEN FUNCTIONEN.

LOGARITMOS

DE LAS FUNCTIONES TRIGONOMETRICAS.

0 deg.

Log. sin.

N	d'	1'	2'	3'	4'	5'	6'	N
0								60
1	6.4688749	6.4637261	6.7647561	6.9408473	7.0657860	7.1686560	7.2418771	59
2	6.4685049	6.4700067	6.7683602	6.9432634	7.0675918	7.1641412	7.2430818	58
3	6.4680549	6.4705567	6.7719347	6.9460468	7.0693501	7.1655817	7.2442836	57
4	6.4676349	6.4849154	6.7754800	6.9480865	7.0711810	7.1670173	7.2454813	56
5	6.4672349	6.4917548	6.7789968	6.9503262	7.0729646	7.1684483	7.2466760	55
6	6.4668549	6.4984882	6.7824849	6.9527465	7.0747408	7.1698745	7.2478675	54
7	6.4664749	6.5051188	6.7859464	6.9552878	7.0765099	7.1712931	7.2490557	53
8	6.4661049	6.5116497	6.7893786	6.9578464	7.0782717	7.1727131	7.2502402	52
9	6.4657449	6.5180838	6.7927848	6.9603737	7.0800264	7.1741254	7.2514225	51
10	6.4653849	6.5244239	6.7961646	6.9629365	7.0817741	7.1755332	7.2526010	50
11	6.4650249	6.5306720	6.7995182	6.9654384	7.0835148	7.1769364	7.2537764	49
12	6.4646649	6.5368312	6.8028461	6.9679682	7.0852485	7.1783361	7.2549485	48
13	6.4643049	6.5429074	6.8061488	6.9705260	7.0869753	7.1797293	7.2561176	47
14	6.4639449	6.5488977	6.8094265	6.9731132	7.0886953	7.1811190	7.2572836	46
15	6.4635849	6.5548066	6.8126796	6.9757365	7.0904085	7.1825043	7.2584462	45
16	6.4632249	6.5606361	6.8159086	6.9783904	7.0921149	7.1838853	7.2596050	44
17	6.4628649	6.5663884	6.8191137	6.9810817	7.0938147	7.1852618	7.2607626	43
18	6.4625049	6.5720556	6.8222954	6.9837840	7.0955079	7.1866340	7.2619160	42
19	6.4621449	6.5776565	6.8254533	6.9864400	7.0971945	7.1880018	7.2630667	41
20	6.4617849	6.5832019	6.8285896	6.9890479	7.0988745	7.1893664	7.2642138	40
21	6.4614249	6.5886948	6.8317020	6.9916048	7.1005481	7.1907247	7.2653582	39
22	6.4610649	6.5942050	6.8347930	6.9941202	7.1022153	7.1920777	7.2664996	38
23	6.4607049	6.5996387	6.8378634	6.9966026	7.1038760	7.1934336	7.2676380	37
24	6.4603449	6.6050929	6.8409109	6.9990508	7.1055305	7.1947778	7.2687734	36
25	6.4600049	6.6104541	6.8439373	6.9995050	7.1071787	7.1961197	7.2699058	35
26	6.4596449	6.6149938	6.8469428	6.9973287	7.1088206	7.1974580	7.2710353	34
27	6.4592849	6.6200733	6.8499277	6.9951422	7.1104564	7.1987922	7.2721619	33
28	6.4589249	6.6250941	6.8528922	6.9929561	7.1120860	7.2001224	7.2732856	32
29	6.4585649	6.6300575	6.8558365	6.9907605	7.1137106	7.2014485	7.2744063	31
30	6.4582049	6.6349649	6.8587611	6.9885641	7.1153270	7.2027706	7.2755248	30
31	6.4578449	6.6398174	6.8616661	6.9863678	7.1169435	7.2040886	7.2766402	29
32	6.4574849	6.6446162	6.8645518	6.9841702	7.1185540	7.2054027	7.2777514	28
33	6.4571249	6.6493627	6.8674184	6.9819717	7.1201636	7.2067128	7.2788567	27
34	6.4567649	6.6540578	6.8702664	6.9797731	7.1217731	7.2080189	7.2799672	26
35	6.4564049	6.6587027	6.8730956	6.9775745	7.1233823	7.2093211	7.2810708	25
36	6.4560449	6.6633985	6.8759065	6.9753759	7.1249907	7.2106215	7.2821717	24
37	6.4556849	6.6680461	6.8786994	6.9731773	7.1265985	7.2119240	7.2832698	23
38	6.4553249	6.6726466	6.8814745	6.9709787	7.1282060	7.2132246	7.2843651	22
39	6.4549649	6.6772000	6.8842319	6.9687801	7.1298133	7.2145219	7.2854577	21
40	6.4546049	6.6818100	6.8869719	6.9665815	7.1314178	7.2158174	7.2865475	20
41	6.4542449	6.6863748	6.8896948	6.9643829	7.1330208	7.2171056	7.2876346	19
42	6.4538849	6.6909062	6.8924007	6.9621843	7.1346211	7.2183920	7.2887190	18
43	6.4535249	6.6954175	6.8950898	6.9600000	7.1362238	7.2196768	7.2898006	17
44	6.4531649	6.6999021	6.8977664	6.9578167	7.1378261	7.2209608	7.2908797	16
45	6.4528049	6.7043608	6.9004187	6.9556333	7.1394281	7.2222431	7.2919560	15
46	6.4524449	6.7087948	6.9030688	6.9534500	7.1410298	7.2235246	7.2930296	14
47	6.4520849	6.7132087	6.9056989	6.9512667	7.1426311	7.2248056	7.2941006	13
48	6.4517249	6.7176086	6.9083080	6.9490833	7.1442321	7.2260861	7.2951690	12
49	6.4513649	6.7220000	6.9109171	6.9468999	7.1458328	7.2273661	7.2962347	11
50	6.4510049	6.7263920	6.9135262	6.9447165	7.1474331	7.2286456	7.2972979	10
51	6.4506449	6.7307840	6.9161353	6.9425331	7.1490331	7.2299246	7.2983584	9
52	6.4502849	6.7351760	6.9187444	6.9403497	7.1506331	7.2312031	7.2994164	8
53	6.4499249	6.7395680	6.9213535	6.9381663	7.1522331	7.2324821	7.3004719	7
54	6.4495649	6.7439600	6.9239626	6.9359829	7.1538331	7.2337611	7.3015246	6
55	6.4492049	6.7483520	6.9265717	6.9337995	7.1554331	7.2350401	7.3025740	5
56	6.4488449	6.7527440	6.9291808	6.9316161	7.1570331	7.2363191	7.3036219	4
57	6.4484849	6.7571360	6.9317899	6.9294327	7.1586331	7.2375981	7.3046679	3
58	6.4481249	6.7615280	6.9343990	6.9272493	7.1602331	7.2388771	7.3057119	2
59	6.4477649	6.7659200	6.9370081	6.9250659	7.1618331	7.2401561	7.3067539	1
60	6.4474049	6.7703120	6.9396172	6.9228825	7.1634331	7.2414351	7.3077939	0
61	6.4470449	6.7747040	6.9422263	6.9206991	7.1650331	7.2427141	7.3088319	0
62	6.4466849	6.7790960	6.9448354	6.9185157	7.1666331	7.2439931	7.3098679	0
63	6.4463249	6.7834880	6.9474445	6.9163323	7.1682331	7.2452721	7.3109019	0
64	6.4459649	6.7878800	6.9500536	6.9141489	7.1698331	7.2465511	7.3119359	0
65	6.4456049	6.7922720	6.9526627	6.9119655	7.1714331	7.2478301	7.3129699	0
66	6.4452449	6.7966640	6.9552718	6.9097821	7.1730331	7.2491091	7.3139939	0
67	6.4448849	6.8010560	6.9578809	6.9075987	7.1746331	7.2503881	7.3150179	0
68	6.4445249	6.8054480	6.9604890	6.9054153	7.1762331	7.2516671	7.3160419	0
69	6.4441649	6.8098400	6.9630981	6.9032319	7.1778331	7.2529461	7.3170659	0
70	6.4438049	6.8142320	6.9657072	6.9010485	7.1794331	7.2542251	7.3180899	0
71	6.4434449	6.8186240	6.9683163	6.8988651	7.1810331	7.2555041	7.3191139	0
72	6.4430849	6.8230160	6.9709254	6.8966817	7.1826331	7.2567831	7.3201379	0
73	6.4427249	6.8274080	6.9735345	6.8944983	7.1842331	7.2580621	7.3211619	0
74	6.4423649	6.8318000	6.9761436	6.8923149	7.1858331	7.2593411	7.3221859	0
75	6.4420049	6.8361920	6.9787527	6.8901315	7.1874331	7.2606201	7.3232099	0
76	6.4416449	6.8405840	6.9813618	6.8879481	7.1890331	7.2618991	7.3242339	0
77	6.4412849	6.8449760	6.9839709	6.8857647	7.1906331	7.2631781	7.3252579	0
78	6.4409249	6.8493680	6.9865800	6.8835813	7.1922331	7.2644571	7.3262819	0
79	6.4405649	6.8537600	6.9891891	6.8813979	7.1938331	7.2657361	7.3273059	0
80	6.4402049	6.8581520	6.9917982	6.8792145	7.1954331	7.2670151	7.3283299	0
81	6.4398449	6.8625440	6.9944073	6.8770311	7.1970331	7.2682941	7.3293539	0
82	6.4394849	6.8669360	6.9970164	6.8748477	7.1986331	7.2695731	7.3303779	0
83	6.4391249	6.8713280	6.9996255	6.8726643	7.2002331	7.2708521	7.3314019	0
84	6.4387649	6.8757200	7.0022346	6.8704809	7.2018331	7.2721311	7.3324259	0
85	6.4384049	6.8801120	7.0048437	6.8682975	7.2034331	7.2734101	7.3334499	0
86	6.4380449	6.8845040	7.0074528	6.8661141	7.2050331	7.2746891	7.3344739	0
87	6.4376849	6.8888960	7.0100619	6.8639307	7.2066331	7.2759681	7.3354979	0
88	6.4373249	6.8932880	7.0126710	6.8617473	7.2082331	7.2772471	7.3365219	0
89	6.4369649	6.8976800	7.0152801	6.8595639	7.2098331	7.2785261	7.3375459	0
90	6.4366049	6.9020720	7.0178892	6.8573805	7.2114331	7.2798051	7.3385699	0
91	6.4362449	6.9064640	7.0204983	6.8551971	7.2130331	7.2810841	7.3395939	0
92	6.4358849	6.9108560	7.0231074	6.8530137	7.2146331	7.2823631	7.3406179	0
93	6.4355249	6.9152480	7.0257165	6.8508303	7.2162331	7.2836421	7.3416419	0
94	6.4351649	6.9196400	7.0283256	6.8486469	7.2178331	7.2849211	7.3426659	0
95	6.4348049	6.9240320	7.0309347	6.8464635	7.2194331	7.2862001	7.3436899	0
96	6.4344449	6.9284240	7.0335438	6.8442801	7.2210331	7.2874791	7.3447139	0
97	6.4340849	6.9328160	7.0361529	6.8420967	7.2226331	7.2887581	7.3457379	0
98	6.4337249	6.9372080	7.0387620	6.8399133	7.2242331	7.2899971	7.3467619	0
99	6.4333649	6.9416000	7.0413711	6.8377299	7.2258331	7.2912761	7.3477859	0
100	6.4330049	6.9459920	7.0439802	6.8355465	7.2274331	7.2925551	7.3488099	0

Log. co-sin.

89 deg.

0 deg.

Log. tang.

"	d'	1'	2'	3'	4'	5'	6'	"
0								60
1	4, 6886749	6, 4637261	6, 7647666	6, 9408475	7, 0587863	7, 1666954	7, 2641877	61
2	4, 9866649	6, 4709047	6, 7686603	6, 9436636	7, 0676921	7, 1641417	7, 2630265	62
3	5, 1666661	6, 4779565	6, 7710347	6, 9456454	7, 0693904	7, 1658281	7, 2644839	63
4	5, 4866649	6, 4849154	6, 7754800	6, 9480661	7, 0711813	7, 1670198	7, 2648481	64
5	5, 897349	6, 4917549	6, 7789966	6, 9503988	7, 0729649	7, 1684488	7, 2656767	65
6	6, 3845449	6, 4984828	6, 7824849	6, 9527467	7, 0747412	7, 1698750	7, 2678688	66
7	6, 637261	6, 5051188	6, 7864866	6, 9550879	7, 0765108	7, 1712966	7, 2690504	67
8	6, 637261	6, 5116477	6, 7894886	6, 9574166	7, 0782790	7, 1727136	7, 2698114	68
9	6, 5866649	6, 5180834	6, 7924849	6, 9597308	7, 0800468	7, 1741869	7, 2711463	69
10	6, 6398174	6, 5244840	6, 7951646	6, 9620368	7, 0817744	7, 1756337	7, 2726017	70
11	5, 8867449	6, 5308729	6, 7995183	6, 9643286	7, 0835151	7, 1769369	7, 2737771	71
12	6, 7866649	6, 5368332	6, 8028462	6, 9666084	7, 0852488	7, 1783365	7, 2749428	72
13	5, 7647261	6, 5429074	6, 8061489	6, 9688796	7, 0869756	7, 1797290	7, 2761183	73
14	5, 7995188	6, 5489777	6, 8094666	6, 9711323	7, 0886966	7, 1811196	7, 2772846	74
15	5, 8317089	6, 5548066	6, 8128777	6, 9733767	7, 0904088	7, 1825049	7, 2784469	75
16	5, 8646661	6, 5606361	6, 8159087	6, 9756096	7, 0921153	7, 1838858	7, 2796066	76
17	5, 8966649	6, 5663885	6, 8191136	6, 9778311	7, 0938125	7, 1852662	7, 2807632	77
18	5, 9166661	6, 5720666	6, 8222266	6, 9800412	7, 0955088	7, 1866466	7, 2819167	78
19	5, 9484749	6, 5776666	6, 8253540	6, 9822466	7, 0971948	7, 1880222	7, 2830678	79
20	5, 9643286	6, 5832222	6, 8285087	6, 9844281	7, 0988749	7, 1893969	7, 2842146	80
21	6, 9866649	6, 5886649	6, 8317030	6, 9866060	7, 1005484	7, 1907258	7, 2853590	81
22	6, 1077449	6, 5940590	6, 8347940	6, 9887711	7, 1022156	7, 1920808	7, 2865003	82
23	6, 1077449	6, 5993887	6, 8378833	6, 9909264	7, 1038764	7, 1934311	7, 2876387	83
24	6, 1047307	6, 6046666	6, 8409110	6, 9930710	7, 1055309	7, 1947777	7, 2887741	84
25	6, 1067861	6, 6098848	6, 8439374	6, 9952058	7, 1071790	7, 1961180	7, 2899066	85
26	6, 0836149	6, 6149936	6, 8469429	6, 9973289	7, 1088210	7, 1974586	7, 2910361	86
27	6, 1065149	6, 6200733	6, 8499976	6, 9994422	7, 1104567	7, 1987958	7, 2921667	87
28	6, 1169386	6, 6250941	6, 8529923	7, 0015454	7, 1120864	7, 1999130	7, 2932863	88
29	6, 1367329	6, 6300676	6, 8558367	7, 0036363	7, 1137099	7, 2011491	7, 2944071	89
30	6, 1477929	6, 6349649	6, 8587612	7, 0057213	7, 1153274	7, 2022771	7, 2955280	90
31	6, 1666661	6, 6398174	6, 8616666	7, 0077943	7, 1169389	7, 2034088	7, 2966400	91
32	6, 1766666	6, 6446163	6, 8645519	7, 0098676	7, 1185444	7, 2045438	7, 2977521	92
33	6, 1907248	6, 6493627	6, 8674185	7, 0119109	7, 1201440	7, 2056713	7, 2988615	93
34	6, 2048088	6, 6540676	6, 8702664	7, 0139546	7, 1217378	7, 2068019	7, 2999707	94
35	6, 2179538	6, 6587007	6, 8730997	7, 0159888	7, 1233267	7, 2079321	7, 3010716	95
36	6, 2296429	6, 6633285	6, 8759066	7, 0180135	7, 1249076	7, 2105625	7, 3021725	96
37	6, 2418774	6, 6678461	6, 8786995	7, 0200288	7, 1264848	7, 2121915	7, 3032706	97
38	6, 2537760	6, 6723466	6, 8814766	7, 0220348	7, 1280549	7, 2138205	7, 3043659	98
39	6, 2653585	6, 6768101	6, 8842300	7, 0240315	7, 1296199	7, 2154490	7, 3054585	99
40	6, 2766395	6, 6812101	6, 8869788	7, 0260191	7, 1311793	7, 2170760	7, 3065483	100
41	6, 2876349	6, 6855749	6, 8896949	7, 0279977	7, 1327338	7, 2186948	7, 3076354	1
42	6, 2983587	6, 6898963	6, 8924008	7, 0299673	7, 1342815	7, 2203065	7, 3087198	2
43	6, 3088042	6, 6941761	6, 8950900	7, 0319280	7, 1358242	7, 2219114	7, 3098015	3
44	6, 3190433	6, 6984121	6, 8977626	7, 0338799	7, 1373616	7, 2235089	7, 3108806	4
45	6, 3290976	6, 7026088	6, 9004188	7, 0358234	7, 1388935	7, 2250997	7, 3119568	5
46	6, 3387874	6, 7067648	6, 9030589	7, 0377586	7, 1404200	7, 2266844	7, 3130304	6
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89	6, 4668861	6, 8665282	6, 1074960	7, 1175007	7, 2031919	7, 2905871	7, 3575195	49
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94	6, 4668861	6, 8847017	6, 1195760	7, 1267122	7, 2104234	7, 2978682	7, 3626390	54
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2	7.3108870	7.3686215	7.4195737	7.4651707	7.5064321	7.5441119	7.5789256	52
3	7.3119149	7.3695216	7.4203758	7.4658916	7.5070876	7.5447183	7.5795386	53
4	7.3129404	7.3704198	7.4211733	7.4666119	7.5077422	7.5453225	7.5801899	54
5	7.3139635	7.3713162	7.4219709	7.4673296	7.5083958	7.5459280	7.5808435	55
6	7.3149848	7.3722107	7.4227670	7.4680469	7.5090483	7.5465306	7.5815006	56
7	7.3160024	7.3731034	7.4235617	7.4687629	7.5096999	7.5471384	7.5821585	57
8	7.3170183	7.3739943	7.4243549	7.4694778	7.5103506	7.5477453	7.5828200	58
9	7.3180318	7.3748832	7.4251467	7.4701915	7.5110008	7.5483515	7.5834850	59
10	7.3190430	7.3757705	7.4259370	7.4709041	7.5116489	7.5489568	7.5841500	60
11	7.3200518	7.3766555	7.4267259	7.4716154	7.5122966	7.5495613	7.5848200	61
12	7.3210583	7.3775396	7.4275134	7.4723257	7.5129434	7.5501658	7.5854900	62
13	7.3220624	7.3784214	7.4283005	7.4730347	7.5135892	7.5507700	7.5861600	63
14	7.3230643	7.3793014	7.4290881	7.4737426	7.5142340	7.5513740	7.5868300	64
15	7.3240638	7.3801796	7.4298753	7.4744493	7.5148779	7.5519781	7.5875000	65
16	7.3250610	7.3810561	7.4306621	7.4751549	7.5155208	7.5525821	7.5881700	66
17	7.3260565	7.3819308	7.4314495	7.4758594	7.5161628	7.5531861	7.5888400	67
18	7.3270497	7.3828038	7.4322385	7.4765627	7.5168038	7.5537900	7.5895100	68
19	7.3280409	7.3836750	7.4330281	7.4772649	7.5174439	7.5543940	7.5901800	69
20	7.3290292	7.3845444	7.4337694	7.4779660	7.5180830	7.5549980	7.5908500	70
21	7.3300151	7.3854122	7.4345132	7.4786668	7.5187212	7.5556020	7.5915200	71
22	7.3309988	7.3862782	7.4352595	7.4793674	7.5193585	7.5562060	7.5921900	72
23	7.3319783	7.3871424	7.4360082	7.4800678	7.5199948	7.5568100	7.5928600	73
24	7.3329545	7.3880050	7.4367594	7.4807688	7.5206302	7.5574140	7.5935300	74
25	7.3339274	7.3888658	7.4375128	7.4814694	7.5212646	7.5580180	7.5942000	75
26	7.3348974	7.3897249	7.4382688	7.4821694	7.5218982	7.5586220	7.5948700	76
27	7.3358641	7.3905824	7.4390274	7.4828688	7.5225308	7.5592260	7.5955400	77
28	7.3368275	7.3914381	7.4397887	7.4835678	7.5231628	7.5598300	7.5962100	78
29	7.3377889	7.3922922	7.4405506	7.4842664	7.5237933	7.5604340	7.5968800	79
30	7.3387470	7.3931446	7.4413149	7.4849646	7.5244233	7.5610380	7.5975500	80
31	7.3397011	7.3939953	7.4420814	7.4856625	7.5250528	7.5616420	7.5982200	81
32	7.3406510	7.3948444	7.4428503	7.4863601	7.5256811	7.5622460	7.5988900	82
33	7.3415977	7.3956918	7.4436218	7.4870574	7.5263093	7.5628500	7.5995600	83
34	7.3425404	7.3965375	7.4443959	7.4877546	7.5269376	7.5634540	7.5998300	84
35	7.3434789	7.3973816	7.4451724	7.4884519	7.5275658	7.5640580	7.5998300	85
36	7.3444134	7.3982241	7.4459518	7.4891492	7.5281933	7.5646620	7.5998300	86
37	7.3453440	7.3990650	7.4467341	7.4898465	7.5288208	7.5652660	7.5998300	87
38	7.3462706	7.3999044	7.4475194	7.4905438	7.5294483	7.5658700	7.5998300	88
39	7.3471932	7.4007418	7.4483079	7.4912411	7.5300758	7.5664740	7.5998300	89
40	7.3481118	7.4015778	7.4490993	7.4919384	7.5307033	7.5670780	7.5998300	90
41	7.3490264	7.4024121	7.4498934	7.4926357	7.5313308	7.5676820	7.5998300	91
42	7.3500366	7.4032449	7.4506894	7.4933330	7.5319583	7.5682860	7.5998300	92
43	7.3510425	7.4040761	7.4514879	7.4940303	7.5325858	7.5688900	7.5998300	93
44	7.3520442	7.4049057	7.4522881	7.4947276	7.5332133	7.5694940	7.5998300	94
45	7.3530417	7.4057337	7.4530900	7.4954249	7.5338408	7.5700980	7.5998300	95
46	7.3540350	7.4065601	7.4538939	7.4961222	7.5344683	7.5707020	7.5998300	96
47	7.3550241	7.4073850	7.4546998	7.4968195	7.5350958	7.5713060	7.5998300	97
48	7.3560090	7.4082083	7.4555077	7.4975168	7.5357233	7.5719100	7.5998300	98
49	7.3569897	7.4090301	7.4563176	7.4982141	7.5363508	7.5725140	7.5998300	99
50	7.3579662	7.4098505	7.4571295	7.4989114	7.5369783	7.5731180	7.5998300	100
51	7.3589394	7.4106699	7.4579434	7.4996087	7.5376058	7.5737220	7.5998300	1
52	7.3599094	7.4114880	7.4587593	7.5003060	7.5382333	7.5743260	7.5998300	2
53	7.3608762	7.4123051	7.4595772	7.5010033	7.5388608	7.5749300	7.5998300	3
54	7.3618398	7.4131216	7.4603971	7.5017006	7.5394883	7.5755340	7.5998300	4
55	7.3627994	7.4139369	7.4612190	7.5023979	7.5401158	7.5761380	7.5998300	5
56	7.3637550	7.4147512	7.4620429	7.5030952	7.5407433	7.5767420	7.5998300	6
57	7.3647066	7.4155647	7.4628688	7.5037925	7.5413708	7.5773460	7.5998300	7
58	7.3656542	7.4163772	7.4636967	7.5044898	7.5420033	7.5779500	7.5998300	8
59	7.3665978	7.4171887	7.4645266	7.5051871	7.5426308	7.5785540	7.5998300	9
60	7.3675374	7.4179992	7.4653585	7.5058844	7.5432583	7.5791580	7.5998300	10
61	7.3684730	7.4188087	7.4661924	7.5065817	7.5438858	7.5797620	7.5998300	11
62	7.3694046	7.4196172	7.4670283	7.5072790	7.5445133	7.5803660	7.5998300	12
63	7.3703322	7.4204247	7.4678662	7.5079763	7.5451408	7.5809600	7.5998300	13
64	7.3712558	7.4212312	7.4687061	7.5086736	7.5457683	7.5815640	7.5998300	14
65	7.3721754	7.4220367	7.4695480	7.5093709	7.5463958	7.5821680	7.5998300	15
66	7.3730910	7.4228412	7.4703919	7.5100682	7.5470233	7.5827720	7.5998300	16
67	7.3740026	7.4236447	7.4712378	7.5107655	7.5476508	7.5833760	7.5998300	17
68	7.3749102	7.4244472	7.4720857	7.5114628	7.5482783	7.5839800	7.5998300	18
69	7.3758138	7.4252487	7.4729356	7.5121601	7.5489058	7.5845840	7.5998300	19
70	7.3767134	7.4260492	7.4737875	7.5128574	7.5495333	7.5851880	7.5998300	20
71	7.3776090	7.4268487	7.4746414	7.5135547	7.5501608	7.5857920	7.5998300	21
72	7.3785006	7.4276472	7.4754973	7.5142520	7.5507883	7.5863960	7.5998300	22
73	7.3793882	7.4284447	7.4763552	7.5149493	7.5514158	7.5870000	7.5998300	23
74	7.3802718	7.4292412	7.4772151	7.5156466	7.5520433	7.5876040	7.5998300	24
75	7.3811514	7.4300367	7.4780770	7.5163439	7.5526708	7.5882080	7.5998300	25
76	7.3820270	7.4308312	7.4789409	7.5170412	7.5532983	7.5888120	7.5998300	26
77	7.3829006	7.4316247	7.4798068	7.5177385	7.5539258	7.5894160	7.5998300	27
78	7.3837712	7.4324172	7.4806747	7.5184358	7.5545533	7.5900200	7.5998300	28
79	7.3846388	7.4332087	7.4815446	7.5191331	7.5551808	7.5906240	7.5998300	29
80	7.3855034	7.4340002	7.4824165	7.5198304	7.5558083	7.5912280	7.5998300	30
81	7.3863650	7.4347907	7.4832904	7.5205277	7.5564358	7.5918320	7.5998300	31
82	7.3872236	7.4355812	7.4841663	7.5212250	7.5570633	7.5924360	7.5998300	32
83	7.3880792	7.4363717	7.4850442	7.5219223	7.5576908	7.5930400	7.5998300	33
84	7.3889318	7.4371622	7.4859241	7.5226196	7.5583183	7.5936440	7.5998300	34
85	7.3897814	7.4379527	7.4868060	7.5233169	7.5589458	7.5942480	7.5998300	35
86	7.3906280	7.4387432	7.4876909	7.5240142	7.5595733	7.5948520	7.5998300	36
87	7.3914716	7.4395337	7.4885778	7.5247115	7.5602008	7.5954560	7.5998300	37
88	7.3923122	7.4403242	7.4894677	7.5254088	7.5608283	7.5960600	7.5998300	38
89	7.3931498	7.4411147	7.4903606	7.5261061	7.5614558	7.5966640	7.5998300	39
90	7.3939844	7.4419052	7.4912555	7.5268034	7.5620833	7.5972680	7.5998300	40
91	7.3948160	7.4426957	7.4921524	7.5275007	7.5627108	7.5978720	7.5998300	41
92	7.3956446	7.4434862	7.4930513	7.5281980	7.5633383	7.5984760	7.5998300	42
93	7.3964702	7.4442767	7.4939522	7.5288953	7.5639658	7.5990800	7.5998300	43
94	7.3972928	7.4450672	7.4948551	7.5295926	7.5645933	7.5996840	7.5998300	44
95	7.3981124	7.4458577	7.4957600	7.5302899	7.5652208	7.5998300	7.5998300	45
96	7.3989290	7.4466482	7.4966669	7.5309872	7.5658483	7.5998300	7.5998300	46
97	7.3997426	7.4474387	7.4975758	7.5316845	7.5664758	7.5998300	7.5998300	47
98	7.4005532	7.4482292	7.4984867	7.5323818	7.5671033	7.5998300	7.5998300	48
99	7.4013608	7.4490207	7.4993996	7.5330791	7.5677308	7.5998300	7.5998300	49
100	7.4021654	7.4498122	7.5003145	7.5337764	7.5683583	7.5998300	7.5998300	50

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89 deg.

"	7'	8'	9'	10'	11'	12'	13'	"
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1	7.3098776	7.3677207	7.4187731	7.4644506	7.5057778	7.5435119	7.5782080	59
2	7.3108976	7.3686087	7.4195754	7.4651726	7.5064543	7.5441138	7.5787837	58
3	7.3119168	7.3695288	7.4203757	7.4658934	7.5070899	7.5447149	7.5793387	57
4	7.3129343	7.3704810	7.4211748	7.4666130	7.5077444	7.5453182	7.5798930	56
5	7.3139544	7.3713174	7.4219794	7.4673315	7.5083980	7.5459147	7.5804466	55
6	7.3149851	7.3721119	7.4227855	7.4680487	7.5090506	7.5465133	7.5809955	54
7	7.3160034	7.3729104	7.4235830	7.4687648	7.5097022	7.5471111	7.5815517	53
8	7.3170193	7.3737055	7.4243864	7.4694797	7.5103528	7.5477080	7.5821032	52
9	7.3180328	7.3744845	7.4251882	7.4701934	7.5110025	7.5483042	7.5826540	51
10	7.3190440	7.3752718	7.4259936	7.4709060	7.5116512	7.5488995	7.5832041	50
11	7.3200528	7.3760672	7.4267978	7.4716173	7.5122989	7.5494941	7.5837535	49
12	7.3210592	7.3768608	7.4276010	7.4723276	7.5129457	7.5500878	7.5843022	48
13	7.3220634	7.3776526	7.4284010	7.4730366	7.5135915	7.5506807	7.5848502	47
14	7.3230652	7.3784426	7.4292007	7.4737445	7.5142363	7.5512728	7.5853976	46
15	7.3240648	7.3792309	7.4300000	7.4744513	7.5148802	7.5518640	7.5859441	45
16	7.3250622	7.3800174	7.4308007	7.4751569	7.5155231	7.5524545	7.5864900	44
17	7.3260570	7.3808031	7.4316011	7.4758613	7.5161661	7.5530442	7.5870353	43
18	7.3270496	7.3815880	7.4324010	7.4765646	7.5168081	7.5536331	7.5875807	42
19	7.3280400	7.3823763	7.4332007	7.4772668	7.5174494	7.5542212	7.5881258	41
20	7.3290282	7.3831637	7.4340000	7.4779679	7.5180904	7.5548084	7.5886707	40
21	7.3300141	7.3839514	7.4348008	7.4786678	7.5187313	7.5553949	7.5892152	39
22	7.3309978	7.3847394	7.4356012	7.4793666	7.5193720	7.5560806	7.5897614	38
23	7.3319793	7.3855277	7.4364013	7.4800644	7.5199972	7.5567656	7.5903076	37
24	7.3329585	7.3863163	7.4372010	7.4807618	7.5206226	7.5574507	7.5908531	36
25	7.3339356	7.3871051	7.4380000	7.4814582	7.5212470	7.5581356	7.5913980	35
26	7.3349104	7.3878943	7.4388004	7.4821537	7.5218713	7.5588206	7.5919421	34
27	7.3358831	7.3886837	7.4396000	7.4828483	7.5224956	7.5595056	7.5924865	33
28	7.3368536	7.3894733	7.4404003	7.4835429	7.5231199	7.5601907	7.5930312	32
29	7.3378219	7.3902636	7.4412000	7.4842375	7.5237442	7.5608758	7.5935761	31
30	7.3387881	7.3910545	7.4420008	7.4849321	7.5243685	7.5615609	7.5941212	30
31	7.3397521	7.3918459	7.4428012	7.4856266	7.5249928	7.5622460	7.5946665	29
32	7.3407140	7.3926374	7.4436010	7.4863212	7.5256171	7.5629311	7.5952119	28
33	7.3416738	7.3934291	7.4444013	7.4870157	7.5262414	7.5636162	7.5957576	27
34	7.3426314	7.3942209	7.4452010	7.4877103	7.5268657	7.5643013	7.5963031	26
35	7.3435870	7.3950129	7.4460000	7.4884048	7.5274900	7.5649864	7.5968488	25
36	7.3445404	7.3958051	7.4468008	7.4891000	7.5281143	7.5656715	7.5973947	24
37	7.3454918	7.3965974	7.4476012	7.4897951	7.5287386	7.5663566	7.5979407	23
38	7.3464411	7.3973898	7.4484010	7.4904903	7.5293629	7.5670417	7.5984868	22
39	7.3473883	7.3981823	7.4492000	7.4911854	7.5299872	7.5677268	7.5990329	21
40	7.3483334	7.3989749	7.4500000	7.4918805	7.5306115	7.5684119	7.5995792	20
41	7.3492765	7.3997676	7.4508008	7.4925756	7.5312358	7.5690970	7.6001257	19
42	7.3502176	7.4005604	7.4516012	7.4932707	7.5318601	7.5697821	7.6006724	18
43	7.3511566	7.4013533	7.4524010	7.4939658	7.5324844	7.5704672	7.6012191	17
44	7.3520936	7.4021463	7.4532000	7.4946609	7.5331087	7.5711523	7.6017659	16
45	7.3530286	7.4029394	7.4540008	7.4953560	7.5337330	7.5718374	7.6023128	15
46	7.3539615	7.4037326	7.4548012	7.4960511	7.5343573	7.5725225	7.6028599	14
47	7.3548925	7.4045259	7.4556010	7.4967462	7.5349816	7.5732076	7.6034070	13
48	7.3558215	7.4053193	7.4564000	7.4974413	7.5356059	7.5738927	7.6039541	12
49	7.3567485	7.4061128	7.4572008	7.4981364	7.5362302	7.5745778	7.6044912	11
50	7.3576735	7.4069063	7.4580012	7.4988315	7.5368545	7.5752629	7.6050383	10
51	7.3585965	7.4077000	7.4588010	7.4995266	7.5374788	7.5759480	7.6055854	9
52	7.3595176	7.4084937	7.4596008	7.5002217	7.5381031	7.5766331	7.6061325	8
53	7.3604368	7.4092874	7.4604012	7.5009168	7.5387274	7.5773182	7.6066796	7
54	7.3613540	7.4100811	7.4612010	7.5016119	7.5393517	7.5780033	7.6072267	6
55	7.3622692	7.4108748	7.4620000	7.5023070	7.5399760	7.5786884	7.6077738	5
56	7.3631826	7.4116685	7.4628008	7.5030021	7.5406003	7.5793735	7.6083209	4
57	7.3640940	7.4124622	7.4636012	7.5036972	7.5412246	7.5800586	7.6088680	3
58	7.3650035	7.4132559	7.4644010	7.5043923	7.5418489	7.5807437	7.6094151	2
59	7.3659112	7.4140496	7.4652000	7.5050874	7.5424732	7.5814288	7.6099622	1
60	7.3668169	7.4148433	7.4660008	7.5057825	7.5430975	7.5821139	7.6105093	0
"	52'	51'	50'	49'	48'	47'	46'	"

0 deg.

Log. sin.

#	14'	15'	16'	17'	18'	19'	20'	#
0	7.609530	7.6098160	7.6098445	7.6091733	7.7180966	7.7404775	7.7616737	60
1	7.6103677	7.6106083	7.6106867	7.6095988	7.7190586	7.7408583	7.7631154	59
2	7.6110888	7.6108780	7.6108484	7.6098040	7.7198001	7.7413088	7.7654769	58
3	7.6114012	7.6112618	7.6111906	7.6094487	7.7200013	7.7416180	7.7658380	57
4	7.6119161	7.6117419	7.6116603	7.6095830	7.7200021	7.7419987	7.7661997	56
5	7.6124304	7.6122881	7.6121006	7.6096969	7.7210006	7.7423781	7.7665594	55
6	7.6129440	7.6127017	7.6126504	7.6097806	7.7214087	7.7427573	7.7669107	54
7	7.6134579	7.6131808	7.6130908	7.6097485	7.7218084	7.7431360	7.7672707	53
8	7.6139696	7.6136693	7.6134486	7.6097864	7.7222017	7.7435146	7.7676303	52
9	7.6144813	7.6141373	7.6139770	7.6097884	7.7226007	7.7438926	7.7679907	51
10	7.6149926	7.6146140	7.6143840	7.6098103	7.7230093	7.7442708	7.7683577	50
11	7.6155039	7.6150918	7.6148706	7.6098319	7.7234075	7.7446479	7.7687168	49
12	7.6160139	7.6155683	7.6153396	7.6098528	7.7237956	7.7450261	7.7690750	48
13	7.6165237	7.6160448	7.6158061	7.6098734	7.7241930	7.7454019	7.7694333	47
14	7.6170316	7.6165196	7.6162388	7.6098935	7.7245808	7.7457784	7.7697910	46
15	7.6175397	7.6169945	7.6166779	7.6099136	7.7249669	7.7461546	7.7701486	45
16	7.6180478	7.6174689	7.6171203	7.6099338	7.7253534	7.7465304	7.7705069	44
17	7.6185544	7.6179740	7.6176078	7.6099541	7.7257395	7.7469055	7.7708649	43
18	7.6190605	7.6184816	7.6180911	7.6099744	7.7261258	7.7472811	7.7712231	42
19	7.6195668	7.6189889	7.6185559	7.6099946	7.7265117	7.7476566	7.7715810	41
20	7.6200731	7.6194913	7.6190293	7.6099964	7.7268965	7.7480306	7.7719392	40
21	7.6205798	7.6199933	7.6195048	7.6100038	7.7272801	7.7484048	7.7722980	39
22	7.6210860	7.6204931	7.6199647	7.6100107	7.7276634	7.7487787	7.7726563	38
23	7.6215914	7.6209916	7.6204207	7.6100180	7.7280465	7.7491523	7.7730157	37
24	7.6220971	7.6214854	7.6208983	7.6100251	7.7284294	7.7495256	7.7733750	36
25	7.6226027	7.6219781	7.6213904	7.6100321	7.7288121	7.7498986	7.7737344	35
26	7.6231084	7.6224708	7.6218601	7.6100391	7.7291946	7.7502713	7.7740938	34
27	7.6236140	7.6229631	7.6223304	7.6100461	7.7295770	7.7506438	7.7744532	33
28	7.6241196	7.6234554	7.6228157	7.6100531	7.7299594	7.7510163	7.7748126	32
29	7.6246252	7.6239477	7.6233010	7.6100601	7.7303418	7.7513888	7.7751720	31
30	7.6251308	7.6244399	7.6237833	7.6100671	7.7307242	7.7517613	7.7755314	30
31	7.6256364	7.6249322	7.6242756	7.6100741	7.7311066	7.7521338	7.7758908	29
32	7.6261420	7.6254245	7.6247679	7.6100811	7.7314890	7.7525063	7.7762502	28
33	7.6266476	7.6259168	7.6252602	7.6100881	7.7318714	7.7528788	7.7766096	27
34	7.6271532	7.6264091	7.6257525	7.6100951	7.7322538	7.7532513	7.7769690	26
35	7.6276588	7.6269014	7.6262448	7.6101021	7.7326362	7.7536238	7.7773284	25
36	7.6281644	7.6273937	7.6267371	7.6101091	7.7330186	7.7539963	7.7776878	24
37	7.6286700	7.6278860	7.6272294	7.6101161	7.7334010	7.7543688	7.7780472	23
38	7.6291756	7.6283783	7.6277217	7.6101231	7.7337834	7.7547413	7.7784066	22
39	7.6296812	7.6288706	7.6282140	7.6101301	7.7341658	7.7551138	7.7787660	21
40	7.6301868	7.6293629	7.6287063	7.6101371	7.7345482	7.7554863	7.7791254	20
41	7.6306924	7.6298552	7.6291986	7.6101441	7.7349306	7.7558588	7.7794848	19
42	7.6311980	7.6303475	7.6296909	7.6101511	7.7353130	7.7562313	7.7798442	18
43	7.6317036	7.6308398	7.6301833	7.6101581	7.7356954	7.7566038	7.7802036	17
44	7.6322092	7.6313321	7.6306756	7.6101651	7.7360778	7.7569763	7.7805630	16
45	7.6327148	7.6318244	7.6311679	7.6101721	7.7364602	7.7573488	7.7809224	15
46	7.6332204	7.6323167	7.6316601	7.6101791	7.7368426	7.7577213	7.7812818	14
47	7.6337260	7.6328090	7.6321525	7.6101861	7.7372250	7.7580938	7.7816412	13
48	7.6342316	7.6333013	7.6326448	7.6101931	7.7376074	7.7584663	7.7820006	12
49	7.6347372	7.6337936	7.6331371	7.6102001	7.7379898	7.7588388	7.7823600	11
50	7.6352428	7.6342859	7.6336294	7.6102071	7.7383722	7.7592113	7.7827194	10
51	7.6357484	7.6347782	7.6341217	7.6102141	7.7387546	7.7595838	7.7830788	9
52	7.6362540	7.6352705	7.6346140	7.6102211	7.7391370	7.7599563	7.7834382	8
53	7.6367596	7.6357628	7.6351065	7.6102281	7.7395194	7.7603288	7.7837976	7
54	7.6372652	7.6362551	7.6355988	7.6102351	7.7399018	7.7607013	7.7841570	6
55	7.6377708	7.6367474	7.6360911	7.6102421	7.7402842	7.7610738	7.7845164	5
56	7.6382764	7.6372397	7.6365834	7.6102491	7.7406666	7.7614463	7.7848758	4
57	7.6387820	7.6377320	7.6370757	7.6102561	7.7410490	7.7618188	7.7852352	3
58	7.6392876	7.6382243	7.6375680	7.6102631	7.7414314	7.7621913	7.7855946	2
59	7.6397932	7.6387166	7.6380603	7.6102701	7.7418138	7.7625638	7.7859540	1
60	7.6402988	7.6392089	7.6385526	7.6102771	7.7421962	7.7629363	7.7863134	0
#	45'	44'	43'	42'	41'	40'	39'	#

Log. cosin.

89 deg.

0 deg.

Log. tang.

"	14'	15'	16'	17'	18'	19'	20'	"
0	7.6098566	7.6398201	7.6678492	7.6941786	7.7190026	7.7424841	7.7647610	60
1	7.6103733	7.6403024	7.6683014	7.6946042	7.7194045	7.7428549	7.7651228	59
2	7.6108894	7.6407844	7.6687531	7.6950293	7.7198061	7.7432454	7.7654843	58
3	7.6114049	7.6412654	7.6692043	7.6954541	7.7202071	7.7436355	7.7658454	57
4	7.6119197	7.6417461	7.6696551	7.6958784	7.7206081	7.7440255	7.7662063	56
5	7.6124340	7.6422268	7.6701053	7.6963023	7.7210086	7.7444148	7.7665669	55
6	7.6129477	7.6427059	7.6705552	7.6967258	7.7214087	7.7448040	7.7669271	54
7	7.6134607	7.6431850	7.6710045	7.6971489	7.7218084	7.7451928	7.7672871	53
8	7.6139732	7.6436635	7.6714534	7.6975716	7.7222078	7.7455812	7.7676468	52
9	7.6144850	7.6441416	7.6719018	7.6979938	7.7226068	7.7459694	7.7680061	51
10	7.6149963	7.6446191	7.6723498	7.6984157	7.7230054	7.7463572	7.7683658	50
11	7.6155069	7.6450961	7.6727973	7.6988371	7.7234037	7.7467454	7.7687249	49
12	7.6160169	7.6455725	7.6732443	7.6992582	7.7238016	7.7471330	7.7690825	48
13	7.6165264	7.6460485	7.6736909	7.6996788	7.7241991	7.7475207	7.7694407	47
14	7.6170353	7.6465239	7.6741371	7.7000990	7.7245963	7.7479082	7.7697978	46
15	7.6175436	7.6469988	7.6745827	7.7005189	7.7249931	7.7482914	7.7701552	45
16	7.6180511	7.6474732	7.6750279	7.7009383	7.7253895	7.7486732	7.7705135	44
17	7.6185582	7.6479471	7.6754727	7.7013573	7.7257856	7.7490528	7.7708705	43
18	7.6190647	7.6484204	7.6759170	7.7017765	7.7261813	7.7494280	7.7712272	42
19	7.6195705	7.6488933	7.6763608	7.7021941	7.7265767	7.7498029	7.7715836	41
20	7.6200758	7.6493656	7.6768042	7.7026119	7.7269717	7.7501778	7.7719398	40
21	7.6205805	7.6498374	7.6772471	7.7030293	7.7273663	7.7505517	7.7722956	39
22	7.6210847	7.6503087	7.6776896	7.7034463	7.7277605	7.7509256	7.7726511	38
23	7.6215884	7.6507795	7.6781317	7.7038629	7.7281545	7.7512995	7.7730064	37
24	7.6220911	7.6512497	7.6785733	7.7042791	7.7285481	7.7516732	7.7733614	36
25	7.6225936	7.6517195	7.6790094	7.7046949	7.7289413	7.7520468	7.7737161	35
26	7.6230953	7.6521888	7.6794251	7.7051103	7.7293342	7.7524207	7.7740705	34
27	7.6235965	7.6526576	7.6798403	7.7055253	7.7297267	7.7527944	7.7744246	33
28	7.6240972	7.6531258	7.6802551	7.7059399	7.7301188	7.7531682	7.7747784	32
29	7.6245974	7.6535936	7.6806745	7.7063541	7.7305106	7.7535419	7.7751319	31
30	7.6250969	7.6540608	7.6810894	7.7067679	7.7309020	7.7539154	7.7754851	30
31	7.6255956	7.6545275	7.6815019	7.7071813	7.7312931	7.7542884	7.7758381	29
32	7.6260933	7.6549937	7.6819129	7.7075944	7.7316839	7.7546612	7.7761907	28
33	7.6265907	7.6554595	7.6823235	7.7080070	7.7320746	7.7550340	7.7765431	27
34	7.6270879	7.6559247	7.6827346	7.7084193	7.7324653	7.7554067	7.7768956	26
35	7.6275845	7.6563895	7.6831451	7.7088311	7.7328559	7.7557794	7.7772479	25
36	7.6280806	7.6568537	7.6835553	7.7092426	7.7332463	7.7561520	7.7776002	24
37	7.6285761	7.6573174	7.6839654	7.7096537	7.7336366	7.7565246	7.7779524	23
38	7.6290710	7.6577807	7.6843758	7.7100643	7.7340269	7.7568971	7.7783047	22
39	7.6295654	7.6582436	7.6847858	7.7104746	7.7344172	7.7572696	7.7786569	21
40	7.6300598	7.6587067	7.6851953	7.7108846	7.7348072	7.7576421	7.7790090	20
41	7.6305534	7.6591695	7.6856054	7.7112941	7.7351972	7.7580146	7.7793611	19
42	7.6310461	7.6596328	7.6860154	7.7117032	7.7355872	7.7583871	7.7797132	18
43	7.6315388	7.6600956	7.6864254	7.7121122	7.7359772	7.7587596	7.7800653	17
44	7.6320315	7.6605585	7.6868354	7.7125212	7.7363672	7.7591321	7.7804174	16
45	7.6325242	7.6610213	7.6872454	7.7129302	7.7367572	7.7595046	7.7807695	15
46	7.6330169	7.6614841	7.6876554	7.7133392	7.7371472	7.7598771	7.7811216	14
47	7.6335096	7.6619469	7.6880654	7.7137482	7.7375372	7.7602496	7.7814737	13
48	7.6339923	7.6624097	7.6884754	7.7141572	7.7379272	7.7606221	7.7818258	12
49	7.6344750	7.6628725	7.6888854	7.7145662	7.7383172	7.7609946	7.7821779	11
50	7.6349577	7.6633353	7.6892954	7.7149752	7.7387072	7.7613671	7.7825300	10
51	7.6354404	7.6637981	7.6897054	7.7153842	7.7390972	7.7617396	7.7828821	9
52	7.6359231	7.6642609	7.6901154	7.7157932	7.7394872	7.7621121	7.7832342	8
53	7.6364058	7.6647237	7.6905254	7.7162022	7.7398772	7.7624846	7.7835863	7
54	7.6368885	7.6651865	7.6909354	7.7166112	7.7402672	7.7628571	7.7839384	6
55	7.6373712	7.6656493	7.6913454	7.7170202	7.7406572	7.7632296	7.7842905	5
56	7.6378539	7.6661121	7.6917554	7.7174292	7.7410472	7.7636021	7.7846426	4
57	7.6383366	7.6665749	7.6921654	7.7178382	7.7414372	7.7639746	7.7849947	3
58	7.6388193	7.6670377	7.6925754	7.7182472	7.7418272	7.7643471	7.7853468	2
59	7.6393020	7.6675005	7.6929854	7.7186562	7.7422172	7.7647196	7.7856989	1
60	7.6397847	7.6679633	7.6933954	7.7190652	7.7426072	7.7650921	7.7860510	0
"	14'	15'	16'	17'	18'	19'	20'	"

Log. co-tang.

89 deg.

0 deg.

Log. sin.

N	21'	22'	23'	24'	25'	26'	27'	N
0	7.855497	7.861458	7.865467	7.869338	7.873162	7.876953	7.880704	60
1	7.855287	7.861247	7.865256	7.869127	7.872951	7.876742	7.880493	59
2	7.855077	7.861037	7.865046	7.868917	7.872741	7.876532	7.880283	58
3	7.854867	7.860827	7.864836	7.868707	7.872491	7.876282	7.880073	57
4	7.854657	7.860617	7.864626	7.868497	7.872281	7.876072	7.879863	56
5	7.854447	7.860407	7.864396	7.868287	7.872071	7.875862	7.879653	55
6	7.854237	7.860197	7.864186	7.868077	7.871861	7.875652	7.879443	54
7	7.854027	7.859987	7.863976	7.867867	7.871651	7.875442	7.879233	53
8	7.853817	7.859777	7.863766	7.867657	7.871441	7.875232	7.879023	52
9	7.853607	7.859567	7.863556	7.867447	7.871231	7.875022	7.878813	51
10	7.853397	7.859357	7.863346	7.867237	7.871021	7.874812	7.878603	50
11	7.853187	7.859147	7.863136	7.867027	7.870811	7.874602	7.878393	49
12	7.852977	7.858937	7.862926	7.866817	7.870601	7.874392	7.878183	48
13	7.852767	7.858727	7.862716	7.866607	7.870391	7.874182	7.877973	47
14	7.852557	7.858517	7.862506	7.866397	7.870181	7.873972	7.877763	46
15	7.852347	7.858307	7.862296	7.866187	7.869971	7.873762	7.877553	45
16	7.852137	7.858097	7.862086	7.865977	7.869761	7.873552	7.877343	44
17	7.851927	7.857887	7.861876	7.865767	7.869551	7.873342	7.877133	43
18	7.851717	7.857677	7.861666	7.865557	7.869341	7.873132	7.876923	42
19	7.851507	7.857467	7.861456	7.865347	7.869131	7.872922	7.876713	41
20	7.851297	7.857257	7.861246	7.865137	7.868921	7.872712	7.876503	40
21	7.851087	7.857047	7.861036	7.864927	7.868711	7.872502	7.876293	39
22	7.850877	7.856837	7.860826	7.864717	7.868501	7.872292	7.876083	38
23	7.850667	7.856627	7.860616	7.864507	7.868291	7.872082	7.875873	37
24	7.850457	7.856417	7.860406	7.864297	7.868081	7.871872	7.875663	36
25	7.850247	7.856207	7.860196	7.864087	7.867871	7.871662	7.875453	35
26	7.850037	7.855997	7.859986	7.863877	7.867661	7.871452	7.875243	34
27	7.849827	7.855787	7.859776	7.863667	7.867451	7.871242	7.875033	33
28	7.849617	7.855577	7.859566	7.863457	7.867241	7.871032	7.874823	32
29	7.849407	7.855367	7.859356	7.863247	7.867031	7.870822	7.874613	31
30	7.849197	7.855157	7.859146	7.863037	7.866821	7.870612	7.874403	30
31	7.848987	7.854947	7.858936	7.862827	7.866611	7.870402	7.874193	29
32	7.848777	7.854737	7.858726	7.862617	7.866401	7.870192	7.873983	28
33	7.848567	7.854527	7.858516	7.862407	7.866191	7.869982	7.873773	27
34	7.848357	7.854317	7.858306	7.862197	7.865981	7.869772	7.873563	26
35	7.848147	7.854107	7.858096	7.861987	7.865771	7.869562	7.873353	25
36	7.847937	7.853897	7.857886	7.861777	7.865561	7.869352	7.873143	24
37	7.847727	7.853687	7.857676	7.861567	7.865351	7.869142	7.872933	23
38	7.847517	7.853477	7.857466	7.861357	7.865141	7.868932	7.872723	22
39	7.847307	7.853267	7.857256	7.861147	7.864931	7.868722	7.872513	21
40	7.847097	7.853057	7.857046	7.860937	7.864721	7.868512	7.872303	20
41	7.846887	7.852847	7.856836	7.860727	7.864511	7.868302	7.872093	19
42	7.846677	7.852637	7.856626	7.860517	7.864301	7.868092	7.871883	18
43	7.846467	7.852427	7.856416	7.860307	7.864091	7.867882	7.871673	17
44	7.846257	7.852217	7.856206	7.860097	7.863881	7.867672	7.871463	16
45	7.846047	7.852007	7.855996	7.859887	7.863671	7.867462	7.871253	15
46	7.845837	7.851797	7.855786	7.859677	7.863461	7.867252	7.871043	14
47	7.845627	7.851587	7.855576	7.859467	7.863251	7.867042	7.870833	13
48	7.845417	7.851377	7.855366	7.859257	7.863041	7.866832	7.870623	12
49	7.845207	7.851167	7.855156	7.859047	7.862831	7.866622	7.870413	11
50	7.844997	7.850957	7.854946	7.858837	7.862621	7.866412	7.870203	10
51	7.844787	7.850747	7.854736	7.858627	7.862411	7.866202	7.870003	9
52	7.844577	7.850537	7.854526	7.858417	7.862201	7.865992	7.869793	8
53	7.844367	7.850327	7.854316	7.858207	7.861991	7.865782	7.869583	7
54	7.844157	7.850117	7.854106	7.857997	7.861781	7.865572	7.869373	6
55	7.843947	7.849907	7.853896	7.857787	7.861571	7.865362	7.869163	5
56	7.843737	7.849697	7.853686	7.857577	7.861361	7.865152	7.868953	4
57	7.843527	7.849487	7.853476	7.857367	7.861151	7.864942	7.868743	3
58	7.843317	7.849277	7.853266	7.857157	7.860941	7.864732	7.868533	2
59	7.843107	7.849067	7.853056	7.856947	7.860731	7.864522	7.868323	1
60	7.842897	7.848857	7.852846	7.856737	7.860521	7.864312	7.868113	0
61	7.842687	7.848647	7.852636	7.856527	7.860311	7.864102	7.867903	1
62	7.842477	7.848437	7.852426	7.856317	7.860101	7.863892	7.867693	2
63	7.842267	7.848227	7.852216	7.856107	7.859891	7.863682	7.867483	3
64	7.842057	7.848017	7.852006	7.855897	7.859681	7.863472	7.867273	4
65	7.841847	7.847807	7.851796	7.855687	7.859471	7.863262	7.867063	5
66	7.841637	7.847597	7.851586	7.855477	7.859261	7.863052	7.866853	6
67	7.841427	7.847387	7.851376	7.855267	7.859051	7.862842	7.866643	7
68	7.841217	7.847177	7.851166	7.855057	7.858841	7.862632	7.866433	8
69	7.841007	7.846967	7.850956	7.854847	7.858631	7.862422	7.866223	9
70	7.840797	7.846757	7.850746	7.854637	7.858421	7.862212	7.866013	10
71	7.840587	7.846547	7.850536	7.854427	7.858211	7.862002	7.865803	11
72	7.840377	7.846337	7.850326	7.854217	7.858001	7.861792	7.865593	12
73	7.840167	7.846127	7.850116	7.854007	7.857791	7.861582	7.865383	13
74	7.839957	7.845917	7.849906	7.853797	7.857581	7.861372	7.865173	14
75	7.839747	7.845707	7.849696	7.853587	7.857371	7.861162	7.864963	15
76	7.839537	7.845497	7.849486	7.853377	7.857161	7.860952	7.864753	16
77	7.839327	7.845287	7.849276	7.853167	7.856951	7.860742	7.864543	17
78	7.839117	7.845077	7.849066	7.852957	7.856741	7.860532	7.864333	18
79	7.838907	7.844867	7.848856	7.852747	7.856531	7.860322	7.864123	19
80	7.838697	7.844657	7.848646	7.852537	7.856321	7.860112	7.863913	20
81	7.838487	7.844447	7.848436	7.852327	7.856111	7.859902	7.863703	21
82	7.838277	7.844237	7.848226	7.852117	7.855901	7.859692	7.863493	22
83	7.838067	7.844027	7.848016	7.851907	7.855691	7.859482	7.863283	23
84	7.837857	7.843817	7.847806	7.851697	7.855481	7.859272	7.863073	24
85	7.837647	7.843607	7.847596	7.851487	7.855271	7.859062	7.862863	25
86	7.837437	7.843397	7.847386	7.851277	7.855061	7.858852	7.862653	26
87	7.837227	7.843187	7.847176	7.851067	7.854851	7.858642	7.862443	27
88	7.837017	7.842977	7.846966	7.850857	7.854641	7.858432	7.862233	28
89	7.836807	7.842767	7.846756	7.850647	7.854431	7.858222	7.862023	29
90	7.836597	7.842557	7.846546	7.850437	7.854221	7.858012	7.861813	30
91	7.836387	7.842347	7.846336	7.850227	7.854011	7.857802	7.861603	31
92	7.836177	7.842137	7.846126	7.850017	7.853801	7.857592	7.861393	32
93	7.835967	7.841927	7.845916	7.849807	7.853591	7.857382	7.861183	33
94	7.835757	7.841717	7.845706	7.849597	7.853381	7.857172	7.860973	34
95	7.835547	7.841507	7.845496	7.849387	7.853171	7.856962	7.860763	35
96	7.835337	7.841297	7.845286	7.849177	7.852961	7.856752	7.860553	36
97	7.835127	7.841087	7.845076	7.848967	7.852751	7.856542	7.860343	37
98	7.834917	7.840877	7.844866	7.848757	7.852541	7.856332	7.860133	38
99	7.834707	7.840667	7.844656	7.848547	7.852331	7.856122	7.859923	39
100	7.834497	7.840457	7.844446	7.848337	7.852121	7.855912	7.859713	40

Log. co-sin.

89 deg.

0 deg.

Log. tang.

#	21'	22'	23'	24'	25'	26'	27'	#
0	7.786988	7.8061547	7.8254604	7.8439444	7.8616738	7.8787077	7.8950088	60
1	7.786994	7.8061836	7.8257750	7.8444459	7.8619638	7.8789861	7.8953668	59
2	7.787000	7.8062125	7.8260894	7.8449472	7.8622538	7.8792684	7.8956347	58
3	7.787006	7.8062417	7.8264038	7.8454485	7.8625438	7.8795488	7.8959025	57
4	7.787012	7.8062708	7.8267176	7.8459498	7.8628338	7.8798299	7.8961699	56
5	7.787018	7.8067067	7.8270318	7.8464508	7.8631238	7.8800705	7.8964372	55
6	7.787024	7.8061844	7.8273446	7.8469503	7.8634076	7.8803505	7.8967044	54
7	7.787030	7.8064518	7.8276579	7.8474506	7.8636958	7.8806298	7.8969714	53
8	7.787036	7.8067789	7.8279709	7.8479506	7.8639839	7.8809093	7.8972383	52
9	7.787042	7.8071059	7.8282837	7.8484504	7.8642719	7.8811868	7.8975050	51
10	7.787048	7.8074325	7.8285962	7.8489500	7.8645596	7.8814639	7.8977715	50
11	7.787054	7.8077590	7.8289086	7.8494494	7.8648471	7.8817394	7.8980379	49
12	7.787060	7.8080854	7.8292207	7.8499487	7.8651344	7.8820144	7.8983041	48
13	7.787066	7.8084111	7.8295326	7.8504477	7.8654216	7.8822889	7.8985691	47
14	7.787072	7.8087368	7.8298443	7.8509465	7.8657085	7.8825628	7.8988336	46
15	7.787078	7.8090622	7.8301557	7.8514451	7.8659953	7.8828363	7.8990977	45
16	7.787084	7.8093874	7.8304666	7.8519435	7.8662819	7.8831093	7.8993615	44
17	7.787090	7.8097124	7.8307770	7.8524416	7.8665683	7.8833818	7.8996247	43
18	7.787096	7.8100371	7.8310877	7.8529394	7.8668545	7.8836539	7.8998877	42
19	7.787102	7.8103615	7.8313998	7.8534374	7.8671405	7.8839255	7.9001500	41
20	7.787108	7.8106858	7.8317096	7.8539350	7.8674263	7.8841964	7.9004117	40
21	7.787114	7.8110098	7.8320197	7.8544323	7.8677120	7.8844668	7.9006729	39
22	7.787120	7.8113335	7.8323296	7.8549296	7.8680000	7.8847368	7.9009336	38
23	7.787126	7.8116570	7.8326398	7.8554265	7.8682867	7.8850063	7.9011937	37
24	7.787132	7.8119803	7.8329497	7.8559232	7.8685727	7.8852763	7.9014531	36
25	7.787138	7.8123033	7.8332597	7.8564198	7.8688586	7.8855457	7.9017120	35
26	7.787144	7.8126261	7.8335696	7.8569161	7.8691437	7.8858156	7.9019703	34
27	7.787150	7.8129486	7.8338797	7.8574123	7.8694288	7.8860854	7.9022287	33
28	7.787156	7.8132709	7.8341843	7.8579083	7.8697138	7.8863553	7.9024865	32
29	7.787162	7.8135930	7.8344926	7.8584040	7.8699993	7.8866251	7.9027438	31
30	7.787168	7.8139148	7.8348007	7.8589006	7.8702843	7.8868946	7.9030001	30
31	7.787174	7.8142364	7.8351087	7.8593969	7.8705688	7.8871638	7.9032558	29
32	7.787180	7.8145578	7.8354163	7.8598930	7.8708531	7.8874328	7.9035111	28
33	7.787186	7.8148789	7.8357238	7.8603889	7.8711375	7.8877016	7.9037659	27
34	7.787192	7.8151998	7.8360311	7.8608847	7.8714218	7.8879703	7.9040202	26
35	7.787198	7.8155204	7.8363381	7.8613793	7.8717061	7.8882388	7.9042740	25
36	7.787204	7.8158408	7.8366449	7.8618736	7.8719904	7.8885071	7.9045273	24
37	7.787210	7.8161610	7.8369515	7.8623678	7.8722747	7.8887753	7.9047801	23
38	7.787216	7.8164808	7.8372579	7.8628619	7.8725589	7.8890434	7.9050324	22
39	7.787222	7.8168006	7.8375641	7.8633559	7.8728431	7.8893114	7.9052841	21
40	7.787228	7.8171201	7.8378701	7.8638490	7.8731273	7.8895793	7.9055353	20
41	7.787234	7.8174394	7.8381758	7.8643425	7.8734115	7.8898471	7.9057860	19
42	7.787240	7.8177583	7.8384813	7.8648356	7.8736957	7.8901148	7.9060362	18
43	7.787246	7.8180770	7.8387867	7.8653285	7.8739799	7.8903825	7.9062859	17
44	7.787252	7.8183956	7.8390918	7.8658213	7.8742641	7.8906501	7.9065351	16
45	7.787258	7.8187143	7.8393966	7.8663140	7.8745483	7.8909177	7.9067838	15
46	7.787264	7.8190329	7.8397013	7.8668068	7.8748325	7.8911852	7.9070320	14
47	7.787270	7.8193514	7.8400058	7.8672994	7.8751167	7.8914527	7.9072797	13
48	7.787276	7.8196699	7.8403100	7.8677921	7.8754009	7.8917201	7.9075269	12
49	7.787282	7.8199884	7.8406140	7.8682847	7.8756851	7.8919874	7.9077736	11
50	7.787288	7.8203068	7.8409179	7.8687772	7.8759693	7.8922547	7.9080198	10
51	7.787294	7.8206251	7.8412217	7.8692697	7.8762535	7.8925219	7.9082655	9
52	7.787300	7.8209435	7.8415254	7.8697621	7.8765377	7.8927891	7.9085107	8
53	7.787306	7.8212618	7.8418291	7.8702545	7.8768219	7.8930562	7.9087554	7
54	7.787312	7.8215800	7.8421328	7.8707469	7.8771061	7.8933233	7.9089997	6
55	7.787318	7.8218983	7.8424363	7.8712393	7.8773903	7.8935903	7.9092435	5
56	7.787324	7.8222165	7.8427397	7.8717317	7.8776745	7.8938573	7.9094868	4
57	7.787330	7.8225348	7.8430430	7.8722241	7.8779587	7.8941243	7.9097299	3
58	7.787336	7.8228530	7.8433463	7.8727165	7.8782429	7.8943913	7.9099726	2
59	7.787342	7.8231712	7.8436497	7.8732089	7.8785271	7.8946583	7.9102148	1
60	7.787348	7.8234894	7.8439530	7.8736993	7.8788113	7.8949253	7.9104565	0
#	38'	37'	36'	35'	34'	33'	32'	#

Log. co-tang.

89 deg.

0 deg.

Log. sin.

"	28'	29'	30'	31'	32'	33'	34'	"
0	7.9108793	7.9251190	7.9408419	7.9560819	7.9688598	7.9822334	7.9951980	60
1	7.9111378	7.9263685	7.9410831	7.9563153	7.9690960	7.9824527	7.9954138	59
2	7.9113960	7.9266179	7.9413241	7.9565486	7.9693220	7.9826718	7.9956256	58
3	7.9116542	7.9268671	7.9415651	7.9567818	7.9695479	7.9828909	7.9958371	57
4	7.9119121	7.9271152	7.9418059	7.9569149	7.9697736	7.9831098	7.9960487	56
5	7.9121699	7.9273651	7.9420465	7.9571478	7.9699993	7.9833287	7.9962611	55
6	7.9124276	7.9276139	7.9422871	7.9573806	7.9702248	7.9835474	7.9964734	54
7	7.9126851	7.9278626	7.9425275	7.9576133	7.9704503	7.9837660	7.9966856	53
8	7.9129425	7.9281111	7.9427677	7.9578468	7.9706756	7.9839845	7.9968977	52
9	7.9131997	7.9283595	7.9430079	7.9571782	7.9709008	7.9842029	7.9971097	51
10	7.9134567	7.9286077	7.9432479	7.9574105	7.9711258	7.9844212	7.9973216	50
11	7.9137136	7.9288558	7.9434877	7.9576427	7.9713508	7.9846394	7.9975334	49
12	7.9139704	7.9291037	7.9437273	7.9578747	7.9715756	7.9848574	7.9977451	48
13	7.9142269	7.9293516	7.9439671	7.9581067	7.9718004	7.9850754	7.9979566	47
14	7.9144834	7.9295992	7.9442066	7.9583385	7.9720250	7.9852933	7.9981681	46
15	7.9147397	7.9298467	7.9444459	7.9585702	7.9722495	7.9855110	7.9983795	45
16	7.9149958	7.9300941	7.9446851	7.9588017	7.9724738	7.9857286	7.9985908	44
17	7.9152518	7.9303414	7.9449242	7.9590331	7.9726979	7.9859461	7.9988020	43
18	7.9155076	7.9305885	7.9451631	7.9592645	7.9729222	7.9861636	7.9990130	42
19	7.9157633	7.9308354	7.9454019	7.9594956	7.9731463	7.9863809	7.9992240	41
20	7.9160189	7.9310823	7.9456406	7.9597267	7.9733702	7.9865981	7.9994349	40
21	7.9162743	7.9313289	7.9458792	7.9599576	7.9735940	7.9868151	7.9996456	39
22	7.9165295	7.9315755	7.9461176	7.9601885	7.9738177	7.9870321	7.9998563	38
23	7.9167846	7.9318219	7.9463559	7.9604192	7.9740412	7.9872498	8.0000669	37
24	7.9170396	7.9320682	7.9465940	7.9606497	7.9742647	7.9874670	8.0002773	36
25	7.9172943	7.9323143	7.9468321	7.9608802	7.9744880	7.9876824	8.0004877	35
26	7.9175489	7.9325603	7.9470700	7.9611105	7.9747113	7.9878989	8.0006979	34
27	7.9178034	7.9328061	7.9473077	7.9613407	7.9749344	7.9881154	8.0009081	33
28	7.9180578	7.9330518	7.9475454	7.9615708	7.9751574	7.9883317	8.0011181	32
29	7.9183120	7.9332974	7.9477829	7.9618008	7.9753802	7.9885479	8.0013281	31
30	7.9185660	7.9335428	7.9480203	7.9620305	7.9756030	7.9887641	8.0015379	30
31	7.9188199	7.9337881	7.9482575	7.9622603	7.9758257	7.9889801	8.0017476	29
32	7.9190736	7.9340332	7.9484946	7.9624899	7.9760482	7.9891960	8.0019573	28
33	7.9193272	7.9342783	7.9487316	7.9627194	7.9762706	7.9894117	8.0021669	27
34	7.9195807	7.9345231	7.9489685	7.9629487	7.9764929	7.9896274	8.0023765	26
35	7.9198340	7.9347679	7.9492052	7.9631780	7.9767151	7.9898430	8.0025861	25
36	7.9200871	7.9350125	7.9494418	7.9634071	7.9769372	7.9900585	8.0027954	24
37	7.9203401	7.9352569	7.9496783	7.9636361	7.9771592	7.9902738	8.0030046	23
38	7.9205930	7.9355012	7.9499146	7.9638649	7.9773810	7.9904891	8.0032131	22
39	7.9208457	7.9357454	7.9501508	7.9640937	7.9776028	7.9907043	8.0034220	21
40	7.9210983	7.9359895	7.9503869	7.9643223	7.9778244	7.9909193	8.0036308	20
41	7.9213507	7.9362334	7.9506229	7.9645508	7.9780459	7.9911342	8.0038396	19
42	7.9216030	7.9364772	7.9508587	7.9647792	7.9782673	7.9913491	8.0040482	18
43	7.9218551	7.9367210	7.9510944	7.9650075	7.9784886	7.9915638	8.0042568	17
44	7.9221071	7.9369643	7.9513300	7.9652356	7.9787098	7.9917784	8.0044652	16
45	7.9223589	7.9372077	7.9515654	7.9654637	7.9789309	7.9919929	8.0046735	15
46	7.9226106	7.9374509	7.9518008	7.9656916	7.9791518	7.9922073	8.0048818	14
47	7.9228621	7.9376940	7.9520360	7.9659194	7.9793726	7.9924216	8.0050903	13
48	7.9231135	7.9379369	7.9522710	7.9661470	7.9795934	7.9926358	8.0052979	12
49	7.9233648	7.9381798	7.9525060	7.9663746	7.9798140	7.9928499	8.0055059	11
50	7.9236159	7.9384224	7.9527408	7.9666020	7.9800345	7.9930639	8.0057137	10
51	7.9238669	7.9386650	7.9529755	7.9668293	7.9802549	7.9932778	8.0059215	9
52	7.9241177	7.9389074	7.9532100	7.9670565	7.9804752	7.9934915	8.0061291	8
53	7.9243683	7.9391497	7.9534444	7.9672836	7.9806953	7.9937052	8.0063366	7
54	7.9246188	7.9393918	7.9536787	7.9675106	7.9809154	7.9939188	8.0065441	6
55	7.9248692	7.9396338	7.9539129	7.9677374	7.9811353	7.9941322	8.0067514	5
56	7.9251195	7.9398757	7.9541470	7.9679641	7.9813552	7.9943456	8.0069587	4
57	7.9253696	7.9401175	7.9543809	7.9681907	7.9815749	7.9945588	8.0071658	3
58	7.9256195	7.9403591	7.9546147	7.9684172	7.9817945	7.9947720	8.0073729	2
59	7.9258693	7.9406005	7.9548484	7.9686436	7.9820140	7.9949850	8.0075798	1
60	7.9261190	7.9408419	7.9550819	7.9688698	7.9822334	7.9951980	8.0077870	0
"	31'	30'	29'	28'	27'	26'	25'	"

Log. co-sin.

89 deg.

0 deg.

Log. tang.

"	28'	29'	30'	31'	32'	33'	34'	"
0	7.9108338	7.9061344	7.9048584	7.9060996	7.9088886	7.9088534	7.9088198	60
1	7.9111588	7.9063840	7.9051080	7.9063492	7.9091148	7.9090796	7.9090444	59
2	7.9114828	7.9066336	7.9053576	7.9065988	7.9093644	7.9093292	7.9092940	58
3	7.9118068	7.9068832	7.9056072	7.9068484	7.9096140	7.9095788	7.9095436	57
4	7.9121308	7.9071328	7.9058568	7.9070980	7.9098636	7.9098284	7.9097932	56
5	7.9124548	7.9073824	7.9061064	7.9073476	7.9101132	7.9100780	7.9100428	55
6	7.9127788	7.9076320	7.9063560	7.9075972	7.9103628	7.9103276	7.9102924	54
7	7.9131028	7.9078816	7.9066056	7.9078468	7.9106124	7.9105772	7.9105420	53
8	7.9134268	7.9081312	7.9068552	7.9080964	7.9108620	7.9108268	7.9107916	52
9	7.9137508	7.9083808	7.9071048	7.9083460	7.9111116	7.9110764	7.9110412	51
10	7.9140748	7.9086304	7.9073544	7.9085956	7.9113612	7.9113260	7.9112908	50
11	7.9143988	7.9088800	7.9076040	7.9088452	7.9116108	7.9115756	7.9115404	49
12	7.9147228	7.9091296	7.9078536	7.9090948	7.9118604	7.9118252	7.9117900	48
13	7.9150468	7.9093792	7.9081032	7.9093444	7.9121100	7.9120748	7.9120396	47
14	7.9153708	7.9096288	7.9083528	7.9095940	7.9123596	7.9123244	7.9122892	46
15	7.9156948	7.9098784	7.9086024	7.9098436	7.9126092	7.9125740	7.9125388	45
16	7.9160188	7.9101280	7.9088520	7.9100932	7.9128588	7.9128236	7.9127884	44
17	7.9163428	7.9103776	7.9091016	7.9103428	7.9131084	7.9130732	7.9130380	43
18	7.9166668	7.9106272	7.9093512	7.9105924	7.9133580	7.9133228	7.9132876	42
19	7.9169908	7.9108768	7.9096008	7.9108420	7.9136076	7.9135724	7.9135372	41
20	7.9173148	7.9111264	7.9098504	7.9110916	7.9138572	7.9138220	7.9137868	40
21	7.9176388	7.9113760	7.9101000	7.9113412	7.9141068	7.9140716	7.9140364	39
22	7.9179628	7.9116256	7.9103496	7.9115908	7.9143564	7.9143212	7.9142860	38
23	7.9182868	7.9118752	7.9105992	7.9118404	7.9146060	7.9145708	7.9145356	37
24	7.9186108	7.9121248	7.9108488	7.9120900	7.9148556	7.9148204	7.9147852	36
25	7.9189348	7.9123744	7.9110984	7.9123396	7.9151052	7.9150700	7.9150348	35
26	7.9192588	7.9126240	7.9113480	7.9125892	7.9153548	7.9153196	7.9152844	34
27	7.9195828	7.9128736	7.9115976	7.9128388	7.9156044	7.9155692	7.9155340	33
28	7.9199068	7.9131232	7.9118472	7.9130884	7.9158540	7.9158188	7.9157836	32
29	7.9202308	7.9133728	7.9120968	7.9133380	7.9161036	7.9160684	7.9160332	31
30	7.9205548	7.9136224	7.9123464	7.9135876	7.9163532	7.9163180	7.9162828	30
31	7.9208788	7.9138720	7.9125960	7.9138372	7.9166028	7.9165676	7.9165324	29
32	7.9212028	7.9141216	7.9128456	7.9140868	7.9168524	7.9168172	7.9167820	28
33	7.9215268	7.9143712	7.9130952	7.9143364	7.9171020	7.9170668	7.9170316	27
34	7.9218508	7.9146208	7.9133448	7.9145860	7.9173516	7.9173164	7.9172812	26
35	7.9221748	7.9148704	7.9135944	7.9148356	7.9176012	7.9175660	7.9175308	25
36	7.9224988	7.9151200	7.9138440	7.9150852	7.9178508	7.9178156	7.9177804	24
37	7.9228228	7.9153696	7.9140936	7.9153348	7.9181004	7.9180652	7.9180300	23
38	7.9231468	7.9156192	7.9143432	7.9155844	7.9183500	7.9183148	7.9182796	22
39	7.9234708	7.9158688	7.9145928	7.9158340	7.9186000	7.9185648	7.9185296	21
40	7.9237948	7.9161184	7.9148424	7.9160836	7.9188500	7.9188148	7.9187796	20
41	7.9241188	7.9163680	7.9150920	7.9163332	7.9191000	7.9190648	7.9190296	19
42	7.9244428	7.9166176	7.9153416	7.9165828	7.9193500	7.9193148	7.9192796	18
43	7.9247668	7.9168672	7.9155912	7.9168324	7.9196000	7.9195648	7.9195296	17
44	7.9250908	7.9171168	7.9158408	7.9170820	7.9198500	7.9198148	7.9197796	16
45	7.9254148	7.9173664	7.9160904	7.9173316	7.9201000	7.9200648	7.9200296	15
46	7.9257388	7.9176160	7.9163400	7.9175812	7.9203500	7.9203148	7.9202796	14
47	7.9260628	7.9178656	7.9165896	7.9178308	7.9206000	7.9205648	7.9205296	13
48	7.9263868	7.9181152	7.9168392	7.9180804	7.9208500	7.9208148	7.9207796	12
49	7.9267108	7.9183648	7.9170888	7.9183300	7.9211000	7.9210648	7.9210296	11
50	7.9270348	7.9186144	7.9173384	7.9185796	7.9213500	7.9213148	7.9212796	10
51	7.9273588	7.9188640	7.9175880	7.9188292	7.9216000	7.9215648	7.9215296	9
52	7.9276828	7.9191136	7.9178376	7.9190788	7.9218500	7.9218148	7.9217796	8
53	7.9280068	7.9193632	7.9180872	7.9193284	7.9221000	7.9220648	7.9220296	7
54	7.9283308	7.9196128	7.9183368	7.9195780	7.9223500	7.9223148	7.9222796	6
55	7.9286548	7.9198624	7.9185864	7.9198276	7.9226000	7.9225648	7.9225296	5
56	7.9289788	7.9201120	7.9188360	7.9200772	7.9228500	7.9228148	7.9227796	4
57	7.9293028	7.9203616	7.9190856	7.9203268	7.9231000	7.9230648	7.9230296	3
58	7.9296268	7.9206112	7.9193352	7.9205764	7.9233500	7.9233148	7.9232796	2
59	7.9299508	7.9208608	7.9195848	7.9208260	7.9236000	7.9235648	7.9235296	1
60	7.9302748	7.9211104	7.9198344	7.9210756	7.9238500	7.9238148	7.9237796	0
N	31'	30'	29'	28'	27'	26'	25'	N

Log. co-tang.

89 deg.

15*

0 deg.

Log. sin.

"	35'	36'	37'	38'	39'	40'	41'	"
0	8,0077867	8,0080207	8,0319195	8,0436009	8,0547814	8,0659763	8,0764997	60
1	8,0079934	8,0082217	8,0321150	8,0436913	8,0548670	8,0659572	8,0765752	59
2	8,0082001	8,0084286	8,0323105	8,0437816	8,0549524	8,0660381	8,0766525	58
3	8,0084066	8,0086354	8,0325059	8,0438719	8,0550378	8,0661188	8,0767299	57
4	8,0086131	8,0088422	8,0327012	8,0439621	8,0551231	8,0661995	8,0768072	56
5	8,0088194	8,0090488	8,0328965	8,0440522	8,0552084	8,0662801	8,0768845	55
6	8,0090257	8,0092553	8,0330916	8,0441422	8,0552935	8,0663606	8,0769618	54
7	8,0092320	8,0094618	8,0332866	8,0442321	8,0553785	8,0664411	8,0770391	53
8	8,0094383	8,0096681	8,0334816	8,0443220	8,0554635	8,0665215	8,0771164	52
9	8,0096446	8,0098744	8,0336765	8,0444117	8,0555485	8,0666018	8,0771937	51
10	8,0098507	8,0099906	8,0338713	8,0445014	8,0556333	8,0666820	8,0772710	50
11	8,0100565	8,0102267	8,0340660	8,0445910	8,0557181	8,0667622	8,0773483	49
12	8,0102612	8,0104407	8,0342605	8,0446805	8,0558028	8,0668423	8,0774256	48
13	8,0104658	8,0106555	8,0344551	8,0447700	8,0558874	8,0669223	8,0775029	47
14	8,0106702	8,0108694	8,0346495	8,0448593	8,0559719	8,0670022	8,0775802	46
15	8,0108745	8,0110741	8,0348439	8,0449486	8,0560563	8,0670821	8,0776575	45
16	8,0110789	8,0112787	8,0350382	8,0450378	8,0561407	8,0671619	8,0777348	44
17	8,0112831	8,0114832	8,0352323	8,0451269	8,0562250	8,0672416	8,0778121	43
18	8,0114872	8,0116876	8,0354264	8,0452159	8,0563092	8,0673212	8,0778894	42
19	8,0116912	8,0118919	8,0356204	8,0453048	8,0563933	8,0674008	8,0779667	41
20	8,0118951	8,0120960	8,0358143	8,0453937	8,0564774	8,0674803	8,0780440	40
21	8,0120989	8,0123000	8,0360082	8,0454825	8,0565614	8,0675597	8,0781213	39
22	8,0123026	8,0125039	8,0362019	8,0455712	8,0566453	8,0676390	8,0781986	38
23	8,0125062	8,0127077	8,0363956	8,0456598	8,0567291	8,0677183	8,0782759	37
24	8,0127097	8,0129114	8,0365892	8,0457483	8,0568128	8,0677975	8,0783532	36
25	8,0129131	8,0131150	8,0367826	8,0458368	8,0568965	8,0678766	8,0784305	35
26	8,0131164	8,0133185	8,0369760	8,0459251	8,0569801	8,0679557	8,0785078	34
27	8,0133197	8,0135220	8,0371693	8,0460134	8,0570636	8,0680346	8,0785851	33
28	8,0135228	8,0137253	8,0373626	8,0461016	8,0571470	8,0681135	8,0786624	32
29	8,0137259	8,0139285	8,0375557	8,0461897	8,0572303	8,0681923	8,0787397	31
30	8,0139288	8,0141316	8,0377488	8,0462778	8,0573137	8,0682711	8,0788170	30
31	8,0141316	8,0143346	8,0379417	8,0463657	8,0573969	8,0683498	8,0788943	29
32	8,0143343	8,0145374	8,0381346	8,0464536	8,0574801	8,0684285	8,0789716	28
33	8,0145369	8,0147401	8,0383274	8,0465414	8,0575632	8,0685072	8,0790489	27
34	8,0147394	8,0149427	8,0385201	8,0466291	8,0576463	8,0685859	8,0791262	26
35	8,0149418	8,0151453	8,0387128	8,0467168	8,0577294	8,0686646	8,0792035	25
36	8,0151441	8,0153477	8,0389053	8,0468045	8,0578125	8,0687433	8,0792808	24
37	8,0153464	8,0155501	8,0390978	8,0468921	8,0578956	8,0688220	8,0793581	23
38	8,0155487	8,0157524	8,0392901	8,0469798	8,0579787	8,0689007	8,0794354	22
39	8,0157509	8,0159547	8,0394824	8,0470675	8,0580618	8,0689794	8,0795127	21
40	8,0159530	8,0161569	8,0396746	8,0471552	8,0581449	8,0690581	8,0795900	20
41	8,0161551	8,0163591	8,0398668	8,0472429	8,0582280	8,0691368	8,0796673	19
42	8,0163572	8,0165612	8,0400589	8,0473306	8,0583111	8,0692155	8,0797446	18
43	8,0165593	8,0167633	8,0402510	8,0474183	8,0583942	8,0692942	8,0798219	17
44	8,0167614	8,0169654	8,0404431	8,0475060	8,0584773	8,0693729	8,0798992	16
45	8,0169635	8,0171675	8,0406352	8,0475937	8,0585604	8,0694516	8,0799765	15
46	8,0171656	8,0173696	8,0408273	8,0476814	8,0586435	8,0695303	8,0800538	14
47	8,0173677	8,0175717	8,0410194	8,0477691	8,0587266	8,0696090	8,0801311	13
48	8,0175698	8,0177738	8,0412115	8,0478568	8,0588097	8,0696877	8,0802084	12
49	8,0177719	8,0179759	8,0414036	8,0479445	8,0588928	8,0697664	8,0802857	11
50	8,0179740	8,0181780	8,0415957	8,0480322	8,0589759	8,0698451	8,0803630	10
51	8,0181761	8,0183801	8,0417878	8,0481199	8,0590590	8,0699238	8,0804403	9
52	8,0183782	8,0185822	8,0419799	8,0482076	8,0591421	8,0700025	8,0805176	8
53	8,0185803	8,0187843	8,0421720	8,0482953	8,0592252	8,0700812	8,0805949	7
54	8,0187824	8,0189864	8,0423641	8,0483830	8,0593083	8,0701599	8,0806722	6
55	8,0189845	8,0191885	8,0425562	8,0484707	8,0593914	8,0702386	8,0807495	5
56	8,0191866	8,0193906	8,0427483	8,0485584	8,0594745	8,0703173	8,0808268	4
57	8,0193887	8,0195927	8,0429404	8,0486461	8,0595576	8,0703960	8,0809041	3
58	8,0195908	8,0197948	8,0431325	8,0487338	8,0596407	8,0704747	8,0809814	2
59	8,0197929	8,0199969	8,0433246	8,0488215	8,0597238	8,0705534	8,0810587	1
60	8,0200000	8,0202040	8,0435167	8,0489092	8,0598069	8,0706321	8,0811360	0
"	24'	23'	22'	21'	20'	19'	18'	"

Log. co-sin.

89 deg.

0 deg.

Log. tang.

N	35'	36'	37'	38'	39'	40'	41'	N
0	8,0073022	8,0200445	8,0319446	8,0435274	8,0548094	8,0658057	8,0765006	60
1	8,0080159	8,0208455	8,0328402	8,0447179	8,0564099	8,0680962	8,0795071	59
2	8,0087260	8,0216465	8,0336357	8,0456088	8,0573008	8,0689871	8,0804980	58
3	8,0094329	8,0224475	8,0344357	8,0464985	8,0581908	8,0698771	8,0813069	57
4	8,0091357	8,0232481	8,0352355	8,0473887	8,0589831	8,0706694	8,0821157	56
5	8,0088420	8,0240487	8,0360217	8,0482788	8,0597754	8,0714617	8,0829245	55
6	8,0090483	8,0248493	8,0368116	8,0491689	8,0605676	8,0722540	8,0837333	54
7	8,0092545	8,0256498	8,0376019	8,0500590	8,0613597	8,0730423	8,0845421	53
8	8,0094606	8,0264501	8,0383920	8,0509491	8,0621498	8,0738306	8,0853509	52
9	8,0096666	8,0272504	8,0391821	8,0518392	8,0629399	8,0746189	8,0861597	51
10	8,0098725	8,0280506	8,0399722	8,0527293	8,0637300	8,0754072	8,0869685	50
11	8,0100783	8,0288507	8,0407623	8,0536194	8,0645201	8,0761955	8,0877773	49
12	8,0102840	8,0296507	8,0415524	8,0545095	8,0653102	8,0769838	8,0885861	48
13	8,0104895	8,0304508	8,0423425	8,0553996	8,0661003	8,0777721	8,0893949	47
14	8,0106951	8,0312508	8,0431326	8,0562897	8,0668904	8,0785604	8,0902037	46
15	8,0109005	8,0320509	8,0439227	8,0571798	8,0676805	8,0793487	8,0910125	45
16	8,0111058	8,0328509	8,0447128	8,0580699	8,0684706	8,0801370	8,0918213	44
17	8,0113111	8,0336510	8,0455029	8,0589600	8,0692607	8,0809253	8,0926301	43
18	8,0115161	8,0344510	8,0462930	8,0598501	8,0700508	8,0817136	8,0934389	42
19	8,0117211	8,0352511	8,0470831	8,0607402	8,0708409	8,0825019	8,0942477	41
20	8,0119260	8,0360512	8,0478732	8,0616303	8,0716310	8,0832902	8,0950565	40
21	8,0121308	8,0368513	8,0486633	8,0625204	8,0724211	8,0840785	8,0958653	39
22	8,0123356	8,0376514	8,0494534	8,0634105	8,0732112	8,0848668	8,0966741	38
23	8,0125403	8,0384515	8,0502435	8,0643006	8,0740013	8,0856553	8,0974829	37
24	8,0127447	8,0392516	8,0510336	8,0651907	8,0747914	8,0864438	8,0982917	36
25	8,0129492	8,0400517	8,0518237	8,0660808	8,0755815	8,0872323	8,0991005	35
26	8,0131535	8,0408518	8,0526138	8,0669709	8,0763716	8,0880208	8,1000093	34
27	8,0133579	8,0416519	8,0534039	8,0678610	8,0771617	8,0888109	8,1008181	33
28	8,0135619	8,0424520	8,0541940	8,0687511	8,0779518	8,0896010	8,1016269	32
29	8,0137660	8,0432521	8,0549841	8,0696412	8,0787419	8,0903911	8,1024357	31
30	8,0139700	8,0440522	8,0557742	8,0705313	8,0795320	8,0911812	8,1032445	30
31	8,0141743	8,0448523	8,0565643	8,0714214	8,0803221	8,0919713	8,1040533	29
32	8,0143785	8,0456524	8,0573544	8,0723115	8,0811122	8,0927614	8,1048621	28
33	8,0145828	8,0464525	8,0581445	8,0732016	8,0819023	8,0935515	8,1056709	27
34	8,0147871	8,0472526	8,0589346	8,0740917	8,0826924	8,0943416	8,1064797	26
35	8,0149914	8,0480527	8,0597247	8,0749818	8,0834825	8,0951317	8,1072885	25
36	8,0151957	8,0488528	8,0605148	8,0758719	8,0842726	8,0959218	8,1080973	24
37	8,0153999	8,0496529	8,0613049	8,0767620	8,0850627	8,0967119	8,1089061	23
38	8,0156042	8,0504530	8,0620950	8,0776521	8,0858528	8,0975020	8,1097149	22
39	8,0158085	8,0512531	8,0628851	8,0785422	8,0866429	8,0982921	8,1105237	21
40	8,0160128	8,0520532	8,0636752	8,0794323	8,0874330	8,0990822	8,1113325	20
41	8,0162171	8,0528533	8,0644653	8,0803224	8,0882231	8,0998723	8,1121413	19
42	8,0164214	8,0536534	8,0652554	8,0812125	8,0890132	8,1006624	8,1129501	18
43	8,0166257	8,0544535	8,0660455	8,0821026	8,0898033	8,1014525	8,1137589	17
44	8,0168300	8,0552536	8,0668356	8,0829927	8,0905934	8,1022426	8,1145677	16
45	8,0170343	8,0560537	8,0676257	8,0838828	8,0913835	8,1030327	8,1153765	15
46	8,0172386	8,0568538	8,0684158	8,0847729	8,0921736	8,1038228	8,1161853	14
47	8,0174429	8,0576539	8,0692059	8,0856630	8,0929637	8,1046129	8,1169941	13
48	8,0176472	8,0584540	8,0700060	8,0865531	8,0937538	8,1054030	8,1178029	12
49	8,0178515	8,0592541	8,0708061	8,0874432	8,0945439	8,1061931	8,1186117	11
50	8,0180558	8,0600542	8,0716062	8,0883333	8,0953340	8,1069832	8,1194205	10
51	8,0182601	8,0608543	8,0724063	8,0892234	8,0961241	8,1077733	8,1202293	9
52	8,0184644	8,0616544	8,0732064	8,0901135	8,0969142	8,1085634	8,1210381	8
53	8,0186687	8,0624545	8,0740065	8,0910036	8,0977043	8,1093535	8,1218469	7
54	8,0188730	8,0632546	8,0748066	8,0918937	8,0984944	8,1101436	8,1226557	6
55	8,0190773	8,0640547	8,0756067	8,0927838	8,0992845	8,1109337	8,1234645	5
56	8,0192816	8,0648548	8,0764068	8,0936739	8,1000746	8,1117238	8,1242733	4
57	8,0194859	8,0656549	8,0772069	8,0945640	8,1008647	8,1125139	8,1250821	3
58	8,0196902	8,0664550	8,0780070	8,0954541	8,1016548	8,1133040	8,1258909	2
59	8,0198945	8,0672551	8,0788071	8,0963442	8,1024449	8,1140941	8,1266997	1
60	8,0200988	8,0680552	8,0796072	8,0972343	8,1032350	8,1148842	8,1275085	0
"	24'	23'	22'	21'	20'	19'	18'	"

Log. co-tang.

89 deg.

0 deg.

Log. sin.

"	42'	43'	44'	45'	46'	47'	"
0	8.0869646	8.0971838	8.1071669	8.1169868	8.1264710	8.1358104	60
1	8.0871569	8.0973515	8.1073314	8.1170870	8.1265644	8.1359044	59
2	8.0873491	8.0975438	8.1075258	8.1172748	8.1267566	8.1361183	58
3	8.0875413	8.0977360	8.1077180	8.1174685	8.1269488	8.1363122	57
4	8.0877334	8.0979282	8.1079104	8.1176621	8.1271409	8.1365060	56
5	8.0879254	8.0981204	8.1081028	8.1178557	8.1273329	8.1366997	55
6	8.0881174	8.0983126	8.1082952	8.1180492	8.1275249	8.1368934	54
7	8.0883094	8.0985048	8.1084876	8.1182428	8.1277169	8.1370871	53
8	8.0885014	8.0986970	8.1086800	8.1184363	8.1279089	8.1372807	52
9	8.0886934	8.0988892	8.1088724	8.1186299	8.1281009	8.1374744	51
10	8.0888854	8.0990814	8.1090648	8.1188234	8.1282929	8.1376680	50
11	8.0890774	8.0992736	8.1092572	8.1190170	8.1284849	8.1378616	49
12	8.0892694	8.0994658	8.1094496	8.1192105	8.1286769	8.1380552	48
13	8.0894614	8.0996580	8.1096420	8.1194041	8.1288689	8.1382488	47
14	8.0896534	8.0998502	8.1098344	8.1195976	8.1290609	8.1384424	46
15	8.0898454	8.0999924	8.1100268	8.1197912	8.1292529	8.1386360	45
16	8.0900374	8.1001846	8.1102192	8.1199847	8.1294449	8.1388296	44
17	8.0902294	8.1003768	8.1104116	8.1201783	8.1296369	8.1390232	43
18	8.0904214	8.1005690	8.1106040	8.1203718	8.1298289	8.1392168	42
19	8.0906134	8.1007612	8.1107964	8.1205654	8.1300209	8.1394104	41
20	8.0908054	8.1009534	8.1109888	8.1207589	8.1302129	8.1396040	40
21	8.0910000	8.1011456	8.1111812	8.1209525	8.1304049	8.1397976	39
22	8.0911920	8.1013378	8.1113736	8.1211460	8.1305969	8.1399912	38
23	8.0913840	8.1015300	8.1115660	8.1213396	8.1307889	8.1401848	37
24	8.0915760	8.1017222	8.1117584	8.1215331	8.1309809	8.1403784	36
25	8.0917680	8.1019144	8.1119508	8.1217267	8.1311729	8.1405720	35
26	8.0919600	8.1021066	8.1121432	8.1219202	8.1313649	8.1407656	34
27	8.0921520	8.1022988	8.1123356	8.1221138	8.1315569	8.1409592	33
28	8.0923440	8.1024910	8.1125280	8.1223073	8.1317489	8.1411528	32
29	8.0925360	8.1026832	8.1127204	8.1225009	8.1319409	8.1413464	31
30	8.0927280	8.1028754	8.1129128	8.1226944	8.1321329	8.1415400	30
31	8.0929200	8.1030676	8.1131052	8.1228880	8.1323249	8.1417336	29
32	8.0931120	8.1032598	8.1132976	8.1230815	8.1325169	8.1419272	28
33	8.0933040	8.1034520	8.1134900	8.1232751	8.1327089	8.1421208	27
34	8.0934960	8.1036442	8.1136824	8.1234686	8.1329009	8.1423144	26
35	8.0936880	8.1038364	8.1138748	8.1236622	8.1330929	8.1425080	25
36	8.0938800	8.1040286	8.1140672	8.1238557	8.1332849	8.1427016	24
37	8.0940720	8.1042208	8.1142596	8.1240493	8.1334769	8.1428952	23
38	8.0942640	8.1044130	8.1144520	8.1242428	8.1336689	8.1430888	22
39	8.0944560	8.1046052	8.1146444	8.1244364	8.1338609	8.1432824	21
40	8.0946480	8.1047974	8.1148368	8.1246299	8.1340529	8.1434760	20
41	8.0948400	8.1049896	8.1150292	8.1248235	8.1342449	8.1436696	19
42	8.0950320	8.1051818	8.1152216	8.1250170	8.1344369	8.1438632	18
43	8.0952240	8.1053740	8.1154140	8.1252106	8.1346289	8.1440568	17
44	8.0954160	8.1055662	8.1156064	8.1254041	8.1348209	8.1442504	16
45	8.0956080	8.1057584	8.1157988	8.1255977	8.1350129	8.1444440	15
46	8.0958000	8.1059506	8.1159912	8.1257912	8.1352049	8.1446376	14
47	8.0959920	8.1061428	8.1161836	8.1259848	8.1353969	8.1448312	13
48	8.0961840	8.1063350	8.1163760	8.1261783	8.1355889	8.1450248	12
49	8.0963760	8.1065272	8.1165684	8.1263719	8.1357809	8.1452184	11
50	8.0965680	8.1067194	8.1167608	8.1265654	8.1359729	8.1454120	10
51	8.0967600	8.1069116	8.1169532	8.1267590	8.1361649	8.1456056	9
52	8.0969520	8.1071038	8.1171456	8.1269525	8.1363569	8.1457992	8
53	8.0971440	8.1072960	8.1173380	8.1271461	8.1365489	8.1459928	7
54	8.0973360	8.1074882	8.1175304	8.1273396	8.1367409	8.1461864	6
55	8.0975280	8.1076804	8.1177228	8.1275332	8.1369329	8.1463800	5
56	8.0977200	8.1078726	8.1179152	8.1277267	8.1371249	8.1465736	4
57	8.0979120	8.1080648	8.1181076	8.1279203	8.1373169	8.1467672	3
58	8.0981040	8.1082570	8.1183000	8.1281138	8.1375089	8.1469608	2
59	8.0982960	8.1084492	8.1184924	8.1283074	8.1377009	8.1471544	1
60	8.0984880	8.1086414	8.1186848	8.1285009	8.1378929	8.1473480	0
"	17'	16'	15'	14'	13'	12'	"

Log. sin.

89 deg.

0 deg.

Log. tang.

"	42'	43'	44'	45'	46'	47'	"
0	8.0869770	8.0972172	8.1072025	8.1166534	8.1265099	8.1368810	50
1	8.0871523	8.0973865	8.1073670	8.1171243	8.1269672	8.1373550	51
2	8.0873216	8.0975538	8.1075314	8.1177281	8.1274845	8.1378590	52
3	8.0874838	8.0977220	8.1076968	8.1184458	8.1280617	8.1383910	53
4	8.0876389	8.0978901	8.1078601	8.1192064	8.1287130	8.1389467	54
5	8.0877879	8.0980582	8.1080243	8.1199770	8.1293660	8.1395205	55
6	8.0879309	8.0982261	8.1081885	8.1207476	8.1299901	8.1401014	56
7	8.0880678	8.0983941	8.1083526	8.1215281	8.1306151	8.1406899	57
8	8.0882018	8.0985619	8.1085167	8.1223085	8.1312400	8.1412845	58
9	8.0883355	8.0987297	8.1086807	8.1230888	8.1318649	8.1418750	59
10	8.0884692	8.0988975	8.1088446	8.1238691	8.1324897	8.1424625	60
11	8.0886029	8.0990651	8.1090085	8.1246494	8.1331146	8.1430470	61
12	8.0887366	8.0992327	8.1091723	8.1254297	8.1337394	8.1436295	62
13	8.0888703	8.0994003	8.1093361	8.1262100	8.1343643	8.1442120	63
14	8.0890040	8.0995677	8.1095000	8.1269903	8.1349891	8.1447945	64
15	8.0891377	8.0997351	8.1096638	8.1277706	8.1356140	8.1453770	65
16	8.0892714	8.0999026	8.1098276	8.1285509	8.1362388	8.1459595	66
17	8.0894051	8.1000700	8.1099914	8.1293312	8.1368637	8.1465420	67
18	8.0895388	8.1002375	8.1101552	8.1301115	8.1374885	8.1471245	68
19	8.0896725	8.1004049	8.1103190	8.1308918	8.1381134	8.1477070	69
20	8.0898062	8.1005723	8.1104828	8.1316721	8.1387382	8.1482895	70
21	8.0899399	8.1007397	8.1106466	8.1324524	8.1393631	8.1488720	71
22	8.0900736	8.1009071	8.1108104	8.1332327	8.1399879	8.1494545	72
23	8.0902073	8.1010745	8.1109742	8.1340130	8.1406128	8.1500370	73
24	8.0903410	8.1012419	8.1111380	8.1347933	8.1412376	8.1506195	74
25	8.0904747	8.1014093	8.1113018	8.1355736	8.1418625	8.1512020	75
26	8.0906084	8.1015767	8.1114656	8.1363539	8.1424873	8.1517845	76
27	8.0907421	8.1017441	8.1116294	8.1371342	8.1431122	8.1523670	77
28	8.0908758	8.1019115	8.1117932	8.1379145	8.1437370	8.1529495	78
29	8.0910095	8.1020789	8.1119570	8.1386948	8.1443619	8.1535320	79
30	8.0911432	8.1022463	8.1121208	8.1394751	8.1449867	8.1541145	80
31	8.0912769	8.1024137	8.1122846	8.1402554	8.1456115	8.1547370	81
32	8.0914106	8.1025811	8.1124484	8.1410357	8.1462363	8.1553595	82
33	8.0915443	8.1027485	8.1126122	8.1418160	8.1468611	8.1559820	83
34	8.0916780	8.1029159	8.1127760	8.1425963	8.1474859	8.1566045	84
35	8.0918117	8.1030833	8.1129398	8.1433766	8.1481107	8.1572270	85
36	8.0919454	8.1032507	8.1131036	8.1441569	8.1487355	8.1578495	86
37	8.0920791	8.1034181	8.1132674	8.1449372	8.1493603	8.1584720	87
38	8.0922128	8.1035855	8.1134312	8.1457175	8.1499851	8.1590945	88
39	8.0923465	8.1037529	8.1135950	8.1464978	8.1506100	8.1597170	89
40	8.0924802	8.1039203	8.1137588	8.1472781	8.1512348	8.1603395	90
41	8.0926139	8.1040877	8.1139226	8.1480584	8.1518596	8.1609620	91
42	8.0927476	8.1042551	8.1140864	8.1488387	8.1524844	8.1615845	92
43	8.0928813	8.1044225	8.1142502	8.1496190	8.1531092	8.1622070	93
44	8.0930150	8.1045899	8.1144140	8.1503993	8.1537340	8.1628295	94
45	8.0931487	8.1047573	8.1145778	8.1511796	8.1543588	8.1634520	95
46	8.0932824	8.1049247	8.1147416	8.1519599	8.1549836	8.1640745	96
47	8.0934161	8.1050921	8.1149054	8.1527402	8.1556084	8.1646970	97
48	8.0935498	8.1052595	8.1150692	8.1535205	8.1562332	8.1653195	98
49	8.0936835	8.1054269	8.1152330	8.1543008	8.1568580	8.1659420	99
50	8.0938172	8.1055943	8.1153968	8.1550811	8.1574828	8.1665645	100
51	8.0939509	8.1057617	8.1155606	8.1558614	8.1581076	8.1671870	1
52	8.0940846	8.1059291	8.1157244	8.1566417	8.1587324	8.1678095	2
53	8.0942183	8.1060965	8.1158882	8.1574220	8.1593572	8.1684320	3
54	8.0943520	8.1062639	8.1160520	8.1582023	8.1599820	8.1690545	4
55	8.0944857	8.1064313	8.1162158	8.1589826	8.1606068	8.1696770	5
56	8.0946194	8.1065987	8.1163796	8.1597629	8.1612316	8.1702995	6
57	8.0947531	8.1067661	8.1165434	8.1605432	8.1618564	8.1709220	7
58	8.0948868	8.1069335	8.1167072	8.1613235	8.1624812	8.1715445	8
59	8.0950205	8.1071009	8.1168710	8.1621038	8.1631060	8.1721670	9
60	8.0951542	8.1072683	8.1170348	8.1628841	8.1637308	8.1727895	10
61	8.0952879	8.1074357	8.1171986	8.1636644	8.1643556	8.1734120	11
62	8.0954216	8.1076031	8.1173624	8.1644447	8.1649804	8.1740345	12
63	8.0955553	8.1077705	8.1175262	8.1652250	8.1656052	8.1746570	13
64	8.0956890	8.1079379	8.1176900	8.1660053	8.1662300	8.1752795	14
65	8.0958227	8.1081053	8.1178538	8.1667856	8.1668548	8.1759020	15
66	8.0959564	8.1082727	8.1180176	8.1675659	8.1674796	8.1765245	16
67	8.0960901	8.1084401	8.1181814	8.1683462	8.1681044	8.1771470	17
68	8.0962238	8.1086075	8.1183452	8.1691265	8.1687292	8.1777695	18
69	8.0963575	8.1087749	8.1185090	8.1699068	8.1693540	8.1783920	19
70	8.0964912	8.1089423	8.1186728	8.1706871	8.1699788	8.1790145	20
71	8.0966249	8.1091097	8.1188366	8.1714674	8.1706036	8.1796370	21
72	8.0967586	8.1092771	8.1189999	8.1722477	8.1712284	8.1802595	22
73	8.0968923	8.1094445	8.1191637	8.1730280	8.1718532	8.1808820	23
74	8.0970260	8.1096119	8.1193275	8.1738083	8.1724780	8.1815045	24
75	8.0971597	8.1097793	8.1194913	8.1745886	8.1731028	8.1821270	25
76	8.0972934	8.1099467	8.1196551	8.1753689	8.1737276	8.1827495	26
77	8.0974271	8.1101141	8.1198189	8.1761492	8.1743524	8.1833720	27
78	8.0975608	8.1102815	8.1199827	8.1769295	8.1749772	8.1839945	28
79	8.0976945	8.1104489	8.1201465	8.1777098	8.1756020	8.1846170	29
80	8.0978282	8.1106163	8.1203103	8.1784901	8.1762268	8.1852395	30
81	8.0979619	8.1107837	8.1204741	8.1792704	8.1768516	8.1858620	31
82	8.0980956	8.1109511	8.1206379	8.1800507	8.1774764	8.1864845	32
83	8.0982293	8.1111185	8.1208017	8.1808310	8.1781012	8.1871070	33
84	8.0983630	8.1112859	8.1209655	8.1816113	8.1787260	8.1877295	34
85	8.0984967	8.1114533	8.1211293	8.1823916	8.1793508	8.1883520	35
86	8.0986304	8.1116207	8.1212931	8.1831719	8.1799756	8.1889745	36
87	8.0987641	8.1117881	8.1214569	8.1839522	8.1806004	8.1895970	37
88	8.0988978	8.1119555	8.1216207	8.1847325	8.1812252	8.1902195	38
89	8.0990315	8.1121229	8.1217845	8.1855128	8.1818500	8.1908420	39
90	8.0991652	8.1122903	8.1219483	8.1862931	8.1824748	8.1914645	40
91	8.0992989	8.1124577	8.1221121	8.1870734	8.1831000	8.1920870	41
92	8.0994326	8.1126251	8.1222759	8.1878537	8.1837248	8.1927095	42
93	8.0995663	8.1127925	8.1224397	8.1886340	8.1843496	8.1933320	43
94	8.0997000	8.1129599	8.1226035	8.1894143	8.1849744	8.1939545	44
95	8.0998337	8.1131273	8.1227673	8.1901946	8.1856000	8.1945770	45
96	8.0999674	8.1132947	8.1229311	8.1909749	8.1862248	8.1951995	46
97	8.1001011	8.1134621	8.1230949	8.1917552	8.1868496	8.1958220	47
98	8.1002348	8.1136295	8.1232587	8.1925355	8.1874744	8.1964445	48
99	8.1003685	8.1137969	8.1234225	8.1933158	8.1881000	8.1970670	49
100	8.1005022	8.1139643	8.1235863	8.1940961	8.1887248	8.1976895	50

Log. co-tang.

89 deg.

0 deg.

Log. sin.

N	48'	49'	50'	51'	52'	53'	N
0	8.144933a	8.1539076	8.1628808	8.1718804	8.1797289	8.1879848	60
1	8.1451040	8.1540826	8.1630625	8.1714082	8.1798881	8.1881813	59
2	8.1452847	8.1542628	8.1632470	8.1715541	8.1799912	8.1883898	58
3	8.1454654	8.1544430	8.1634314	8.1717000	8.1801303	8.1885945	57
4	8.1456460	8.1546232	8.1636159	8.1718477	8.1802693	8.1888007	56
5	8.1458265	8.1548034	8.1638004	8.1719954	8.1804083	8.1889670	55
6	8.1460070	8.1549836	8.1639848	8.1721310	8.1805473	8.1891334	54
7	8.1461875	8.1551638	8.1641693	8.1722765	8.1806861	8.1892997	53
8	8.1463680	8.1553440	8.1643537	8.1724142	8.1808250	8.1894659	52
9	8.1465482	8.1555242	8.1645381	8.1725507	8.1809638	8.1896321	51
10	8.1467285	8.1557044	8.1647225	8.1726872	8.1811025	8.1897984	50
11	8.1469087	8.1558846	8.1649069	8.1728236	8.1812413	8.1899643	49
12	8.1470890	8.1560648	8.1650913	8.1729600	8.1813800	8.1901303	48
13	8.1472692	8.1562450	8.1652757	8.1730964	8.1815188	8.1902964	47
14	8.1474495	8.1564252	8.1654601	8.1732328	8.1816575	8.1904624	46
15	8.1476297	8.1566054	8.1656445	8.1733692	8.1817963	8.1906284	45
16	8.1478100	8.1567856	8.1658289	8.1735056	8.1819350	8.1907943	44
17	8.1479902	8.1569658	8.1660133	8.1736420	8.1820738	8.1909603	43
18	8.1481705	8.1571460	8.1661977	8.1737784	8.1822125	8.1911263	42
19	8.1483507	8.1573262	8.1663821	8.1739148	8.1823513	8.1912923	41
20	8.1485310	8.1575064	8.1665665	8.1740512	8.1824900	8.1914583	40
21	8.1487112	8.1576866	8.1667509	8.1741876	8.1826288	8.1916243	39
22	8.1488915	8.1578668	8.1669353	8.1743240	8.1827675	8.1917903	38
23	8.1490717	8.1580470	8.1671197	8.1744604	8.1829063	8.1919563	37
24	8.1492520	8.1582272	8.1673041	8.1745968	8.1830450	8.1921223	36
25	8.1494322	8.1584074	8.1674885	8.1747332	8.1831838	8.1922883	35
26	8.1496125	8.1585876	8.1676729	8.1748696	8.1833225	8.1924543	34
27	8.1497927	8.1587678	8.1678573	8.1750060	8.1834613	8.1926203	33
28	8.1499730	8.1589480	8.1680417	8.1751424	8.1835999	8.1927863	32
29	8.1501532	8.1591282	8.1682261	8.1752788	8.1837387	8.1929523	31
30	8.1503335	8.1593084	8.1684105	8.1754152	8.1838775	8.1931183	30
31	8.1505137	8.1594886	8.1685949	8.1755516	8.1840163	8.1932843	29
32	8.1506940	8.1596688	8.1687793	8.1756880	8.1841550	8.1934503	28
33	8.1508742	8.1598490	8.1689637	8.1758244	8.1842938	8.1936163	27
34	8.1510545	8.1600292	8.1691481	8.1759608	8.1844325	8.1937823	26
35	8.1512347	8.1602094	8.1693325	8.1760972	8.1845713	8.1939483	25
36	8.1514150	8.1603896	8.1695169	8.1762336	8.1847100	8.1941143	24
37	8.1515952	8.1605698	8.1697013	8.1763700	8.1848488	8.1942803	23
38	8.1517755	8.1607500	8.1698857	8.1765064	8.1849875	8.1944463	22
39	8.1519557	8.1609302	8.1700701	8.1766428	8.1851263	8.1946123	21
40	8.1521360	8.1611104	8.1702545	8.1767792	8.1852650	8.1947783	20
41	8.1523162	8.1612906	8.1704389	8.1769156	8.1854038	8.1949443	19
42	8.1524965	8.1614708	8.1706233	8.1770520	8.1855425	8.1951103	18
43	8.1526767	8.1616510	8.1708077	8.1771884	8.1856813	8.1952763	17
44	8.1528570	8.1618312	8.1709921	8.1773248	8.1858200	8.1954423	16
45	8.1530372	8.1620114	8.1711765	8.1774612	8.1859588	8.1956083	15
46	8.1532175	8.1621916	8.1713609	8.1775976	8.1860975	8.1957743	14
47	8.1533977	8.1623718	8.1715453	8.1777340	8.1862363	8.1959403	13
48	8.1535780	8.1625520	8.1717297	8.1778704	8.1863750	8.1961063	12
49	8.1537582	8.1627322	8.1719141	8.1780068	8.1865138	8.1962723	11
50	8.1539385	8.1629124	8.1720985	8.1781432	8.1866525	8.1964383	10
51	8.1541187	8.1630926	8.1722829	8.1782796	8.1867913	8.1966043	9
52	8.1542990	8.1632728	8.1724673	8.1784160	8.1869300	8.1967703	8
53	8.1544792	8.1634530	8.1726517	8.1785524	8.1870688	8.1969363	7
54	8.1546595	8.1636332	8.1728361	8.1786888	8.1872075	8.1971023	6
55	8.1548397	8.1638134	8.1730205	8.1788252	8.1873463	8.1972683	5
56	8.1550200	8.1639936	8.1732049	8.1789616	8.1874850	8.1974343	4
57	8.1551999	8.1641738	8.1733893	8.1790980	8.1876238	8.1976003	3
58	8.1553802	8.1643540	8.1735737	8.1792344	8.1877625	8.1977663	2
59	8.1555604	8.1645342	8.1737581	8.1793708	8.1879013	8.1979323	1
60	8.1557407	8.1647144	8.1739425	8.1795072	8.1880400	8.1980983	0
N	11'	10'	9'	8'	7'	6'	N

Log. co-sin.

89 deg.

0 deg.

Log. tang.

#	48'	49'	50'	51'	52'	53'	#
0	8.1449556	8.1539516	8.1629477	8.1719438	8.1799399	8.1889360	60
1	8.1451464	8.1541424	8.1631385	8.1721346	8.1801307	8.1891268	59
2	8.1453371	8.1543331	8.1633292	8.1723253	8.1803214	8.1893175	58
3	8.1455278	8.1545238	8.1635200	8.1725160	8.1805121	8.1895082	57
4	8.1457185	8.1547145	8.1637107	8.1727067	8.1807028	8.1896989	56
5	8.1459092	8.1549052	8.1639014	8.1728974	8.1808935	8.1898896	55
6	8.1461000	8.1550960	8.1640921	8.1730881	8.1810842	8.1900803	54
7	8.1462907	8.1552867	8.1642828	8.1732788	8.1812749	8.1902710	53
8	8.1464814	8.1554774	8.1644735	8.1734695	8.1814656	8.1904617	52
9	8.1466721	8.1556681	8.1646642	8.1736602	8.1816563	8.1906524	51
10	8.1468628	8.1558588	8.1648549	8.1738509	8.1818470	8.1908431	50
11	8.1470535	8.1560495	8.1650456	8.1740416	8.1820377	8.1910338	49
12	8.1472442	8.1562402	8.1652363	8.1742323	8.1822284	8.1912245	48
13	8.1474349	8.1564309	8.1654270	8.1744230	8.1824191	8.1914152	47
14	8.1476256	8.1566216	8.1656177	8.1746137	8.1826098	8.1916059	46
15	8.1478163	8.1568123	8.1658084	8.1748044	8.1828005	8.1917966	45
16	8.1480070	8.1570030	8.1660000	8.1749951	8.1829912	8.1919873	44
17	8.1481977	8.1571937	8.1661907	8.1751858	8.1831819	8.1921780	43
18	8.1483884	8.1573844	8.1663814	8.1753765	8.1833726	8.1923687	42
19	8.1485791	8.1575751	8.1665721	8.1755672	8.1835633	8.1925594	41
20	8.1487698	8.1577658	8.1667628	8.1757579	8.1837540	8.1927501	40
21	8.1489605	8.1579565	8.1669535	8.1759486	8.1839447	8.1929408	39
22	8.1491512	8.1581472	8.1671442	8.1761393	8.1841354	8.1931315	38
23	8.1493419	8.1583379	8.1673349	8.1763300	8.1843261	8.1933222	37
24	8.1495326	8.1585286	8.1675256	8.1765207	8.1845168	8.1935129	36
25	8.1497233	8.1587193	8.1677163	8.1767114	8.1847075	8.1937036	35
26	8.1499140	8.1589100	8.1679070	8.1769021	8.1848982	8.1938943	34
27	8.1501047	8.1591007	8.1680977	8.1770928	8.1850889	8.1940850	33
28	8.1502954	8.1592914	8.1682884	8.1772835	8.1852796	8.1942757	32
29	8.1504861	8.1594821	8.1684791	8.1774742	8.1854703	8.1944664	31
30	8.1506768	8.1596728	8.1686698	8.1776649	8.1856610	8.1946571	30
31	8.1508675	8.1598635	8.1688605	8.1778556	8.1858517	8.1948478	29
32	8.1510582	8.1600542	8.1690512	8.1780463	8.1860424	8.1950385	28
33	8.1512489	8.1602449	8.1692419	8.1782370	8.1862331	8.1952292	27
34	8.1514396	8.1604356	8.1694326	8.1784277	8.1864238	8.1954199	26
35	8.1516303	8.1606263	8.1696233	8.1786184	8.1866145	8.1956106	25
36	8.1518210	8.1608170	8.1698140	8.1788091	8.1868052	8.1958013	24
37	8.1520117	8.1610077	8.1700047	8.1789998	8.1869959	8.1959920	23
38	8.1522024	8.1611984	8.1701954	8.1791905	8.1871866	8.1961827	22
39	8.1523931	8.1613891	8.1703861	8.1793812	8.1873773	8.1963734	21
40	8.1525838	8.1615798	8.1705768	8.1795719	8.1875680	8.1965641	20
41	8.1527745	8.1617705	8.1707675	8.1797626	8.1877587	8.1967548	19
42	8.1529652	8.1619612	8.1709582	8.1799533	8.1879494	8.1969455	18
43	8.1531559	8.1621519	8.1711489	8.1801440	8.1881401	8.1971362	17
44	8.1533466	8.1623426	8.1713396	8.1803347	8.1883308	8.1973269	16
45	8.1535373	8.1625333	8.1715303	8.1805254	8.1885215	8.1975176	15
46	8.1537280	8.1627240	8.1717210	8.1807161	8.1887122	8.1977083	14
47	8.1539187	8.1629147	8.1719117	8.1809068	8.1889029	8.1978990	13
48	8.1541094	8.1631054	8.1721024	8.1810975	8.1890936	8.1980897	12
49	8.1542999	8.1632961	8.1722931	8.1812882	8.1892843	8.1982804	11
50	8.1544906	8.1634868	8.1724838	8.1814789	8.1894750	8.1984711	10
51	8.1546813	8.1636775	8.1726745	8.1816696	8.1896657	8.1986618	9
52	8.1548720	8.1638682	8.1728652	8.1818603	8.1898564	8.1988525	8
53	8.1550627	8.1640589	8.1730559	8.1820510	8.1900471	8.1990432	7
54	8.1552534	8.1642496	8.1732466	8.1822417	8.1902378	8.1992339	6
55	8.1554441	8.1644403	8.1734373	8.1824324	8.1904285	8.1994246	5
56	8.1556348	8.1646310	8.1736280	8.1826231	8.1906192	8.1996153	4
57	8.1558255	8.1648217	8.1738187	8.1828138	8.1908099	8.1998060	3
58	8.1560162	8.1650124	8.1740094	8.1830045	8.1909906	8.1999967	2
59	8.1562069	8.1652031	8.1742001	8.1831952	8.1911813	8.2001874	1
60	8.1563976	8.1653938	8.1743908	8.1833859	8.1913720	8.2003781	0
#	11'	10'	9	8	7	6	#

Log. co-tang.

89 deg.

0 deg.

Log. tang.

#	54	55	56	57	58	59	"
1	8, 1961565	8, 2041265	8, 2119526	8, 2196408	8, 2271953	8, 2346208	60
2	8, 1962806	8, 2042675	8, 2120818	8, 2197678	8, 2273201	8, 2347435	59
3	8, 1964236	8, 2043800	8, 2122110	8, 2198947	8, 2274442	8, 2348661	58
4	8, 1965576	8, 2045205	8, 2123402	8, 2200215	8, 2275656	8, 2349887	57
5	8, 1966915	8, 2046581	8, 2124694	8, 2201485	8, 2276943	8, 2351113	56
6	8, 1968254	8, 2047835	8, 2125985	8, 2202754	8, 2278190	8, 2352339	55
7	8, 1969592	8, 2049149	8, 2127275	8, 2204022	8, 2279435	8, 2353564	54
8	8, 1970930	8, 2050463	8, 2128565	8, 2205283	8, 2280682	8, 2354789	53
9	8, 1972268	8, 2051776	8, 2129855	8, 2206557	8, 2281927	8, 2356015	52
10	8, 1973605	8, 2053089	8, 2131145	8, 2207824	8, 2283173	8, 2357237	51
11	8, 1974942	8, 2054401	8, 2132434	8, 2209090	8, 2284417	8, 2358461	50
12	8, 1976278	8, 2055714	8, 2133723	8, 2210355	8, 2285662	8, 2359684	49
13	8, 1977614	8, 2057028	8, 2135011	8, 2211622	8, 2286905	8, 2360908	48
14	8, 1978949	8, 2058337	8, 2136299	8, 2212888	8, 2288150	8, 2362130	47
15	8, 1980284	8, 2059647	8, 2137587	8, 2214153	8, 2289393	8, 2363353	46
16	8, 1981619	8, 2060958	8, 2138874	8, 2215418	8, 2290636	8, 2364575	45
17	8, 1982953	8, 2062268	8, 2140161	8, 2216682	8, 2291879	8, 2365796	44
18	8, 1984287	8, 2063578	8, 2141447	8, 2217945	8, 2293121	8, 2367018	43
19	8, 1985621	8, 2064887	8, 2142733	8, 2219210	8, 2294363	8, 2368239	42
20	8, 1986954	8, 2066195	8, 2144019	8, 2220473	8, 2295605	8, 2369460	41
21	8, 1988286	8, 2067505	8, 2145304	8, 2221735	8, 2296846	8, 2370680	40
22	8, 1989619	8, 2068813	8, 2146589	8, 2222998	8, 2298087	8, 2371900	39
23	8, 1990952	8, 2070120	8, 2147874	8, 2224260	8, 2299327	8, 2373120	38
24	8, 1992285	8, 2071428	8, 2149158	8, 2225522	8, 2300568	8, 2374339	37
25	8, 1993617	8, 2072735	8, 2150442	8, 2226784	8, 2301807	8, 2375558	36
26	8, 1994949	8, 2074041	8, 2151726	8, 2228045	8, 2303047	8, 2376776	35
27	8, 1996282	8, 2075348	8, 2153008	8, 2229305	8, 2304286	8, 2377995	34
28	8, 1997614	8, 2076653	8, 2154291	8, 2230565	8, 2305525	8, 2379213	33
29	8, 1998947	8, 2077959	8, 2155573	8, 2231825	8, 2306763	8, 2380430	32
30	8, 2000280	8, 2079264	8, 2156855	8, 2233085	8, 2308001	8, 2381648	31
31	8, 2001612	8, 2080568	8, 2158137	8, 2234345	8, 2309239	8, 2382865	30
32	8, 2002945	8, 2081873	8, 2159418	8, 2235604	8, 2310476	8, 2384081	29
33	8, 2004277	8, 2083178	8, 2160699	8, 2236862	8, 2311713	8, 2385297	28
34	8, 2005610	8, 2084480	8, 2161979	8, 2238120	8, 2312950	8, 2386513	27
35	8, 2006942	8, 2085783	8, 2163259	8, 2239378	8, 2314185	8, 2387729	26
36	8, 2008275	8, 2087085	8, 2164539	8, 2240635	8, 2315422	8, 2388944	25
37	8, 2009607	8, 2088388	8, 2165818	8, 2241892	8, 2316658	8, 2390159	24
38	8, 2010939	8, 2089690	8, 2167097	8, 2243149	8, 2317893	8, 2391373	23
39	8, 2012272	8, 2090991	8, 2168375	8, 2244405	8, 2319128	8, 2392588	22
40	8, 2013605	8, 2092292	8, 2169653	8, 2245661	8, 2320363	8, 2393802	21
41	8, 2014937	8, 2093593	8, 2170931	8, 2246917	8, 2321597	8, 2395015	20
42	8, 2016270	8, 2094893	8, 2172209	8, 2248172	8, 2322831	8, 2396228	19
43	8, 2017602	8, 2096193	8, 2173486	8, 2249427	8, 2324064	8, 2397441	18
44	8, 2018935	8, 2097493	8, 2174762	8, 2250682	8, 2325297	8, 2398654	17
45	8, 2020267	8, 2098792	8, 2176038	8, 2251935	8, 2326530	8, 2399866	16
46	8, 2021600	8, 2100091	8, 2177314	8, 2253190	8, 2327763	8, 2401078	15
47	8, 2022932	8, 2101389	8, 2178590	8, 2254443	8, 2328995	8, 2402289	14
48	8, 2024265	8, 2102687	8, 2179865	8, 2255696	8, 2330227	8, 2403500	13
49	8, 2025597	8, 2103985	8, 2181140	8, 2256949	8, 2331458	8, 2404711	12
50	8, 2026930	8, 2105282	8, 2182414	8, 2258201	8, 2332689	8, 2405922	11
51	8, 2028262	8, 2106579	8, 2183688	8, 2259453	8, 2333920	8, 2407132	10
52	8, 2029595	8, 2107875	8, 2184962	8, 2260705	8, 2335150	8, 2408342	9
53	8, 2030927	8, 2109171	8, 2186235	8, 2261956	8, 2336380	8, 2409551	8
54	8, 2032260	8, 2110467	8, 2187508	8, 2263207	8, 2337610	8, 2410760	7
55	8, 2033592	8, 2111762	8, 2188780	8, 2264459	8, 2338839	8, 2411969	6
56	8, 2034925	8, 2113057	8, 2190053	8, 2265710	8, 2340068	8, 2413177	5
57	8, 2036257	8, 2114351	8, 2191324	8, 2266961	8, 2341297	8, 2414385	4
58	8, 2037590	8, 2115646	8, 2192595	8, 2268212	8, 2342525	8, 2415593	3
59	8, 2038922	8, 2116940	8, 2193867	8, 2269462	8, 2343753	8, 2416801	2
60	8, 2040255	8, 2118233	8, 2195137	8, 2270713	8, 2344980	8, 2418008	1
61	8, 2041587	8, 2119526	8, 2196408	8, 2271963	8, 2346208	8, 2419215	0
#	5'	4'	3'	2'	1'	0'	"

Log. co-tang.

16

89 deg.

0 deg.

[illegible]

89 deg.

1 deg.

7	11	l. sin.	diff.	l. cosin.	l. tang.	diff.	l. cotan.	1
0	0	8.2413353	12046	9.9999338	8.2419215	12049	1.7580785	60
10	0	8.2413099	12012	9.9999335	8.2413254	12016	1.7580936	50
20	0	8.2412841	11978	9.9999331	8.2413280	11983	1.7580720	40
30	0	8.2412591	11945	9.9999327	8.2415563	11950	1.7544737	30
40	0	8.2412337	11914	9.9999324	8.2417813	11918	1.7532787	20
50	0	8.2412081	11881	9.9999320	8.2417931	11884	1.7520862	10
1	0	8.2411822	11848	9.9999316	8.2418151	11853	1.7508985	59
10	0	8.2411560	11816	9.9999313	8.2418358	11820	1.7497132	50
20	0	8.2411306	11785	9.9999309	8.2418588	11788	1.7485312	40
30	0	8.2411051	11752	9.9999305	8.2418847	11756	1.7473594	30
40	0	8.2410793	11721	9.9999301	8.2419038	11724	1.7461768	20
50	0	8.2410534	11689	9.9999297	8.2419256	11693	1.7450044	10
2	0	8.2410273	11657	9.9999294	8.2419469	11661	1.7438361	58
10	0	8.2410010	11627	9.9999290	8.2419681	11631	1.7426650	50
20	0	8.2409747	11595	9.9999286	8.2419894	11599	1.7414935	40
30	0	8.2409482	11565	9.9999282	8.2420106	11568	1.7403260	30
40	0	8.2409217	11533	9.9999278	8.2420318	11538	1.7391582	20
50	0	8.2408952	11501	9.9999275	8.2420545	11507	1.7379904	10
3	0	8.2408684	11472	9.9999271	8.2420763	11477	1.7368287	57
10	0	8.2408416	11443	9.9999267	8.2420980	11446	1.7356670	50
20	0	8.2408147	11412	9.9999263	8.2421197	11416	1.7345052	40
30	0	8.2407878	11383	9.9999259	8.2421412	11387	1.7333435	30
40	0	8.2407608	11353	9.9999255	8.2421627	11357	1.7321811	20
50	0	8.2407337	11323	9.9999251	8.2421842	11327	1.7310186	10
4	0	8.2407065	11294	9.9999247	8.2422056	11297	1.7298563	56
10	0	8.2406793	11264	9.9999243	8.2422269	11269	1.7286940	50
20	0	8.2406520	11235	9.9999239	8.2422482	11239	1.7275317	40
30	0	8.2406247	11206	9.9999235	8.2422695	11210	1.7263694	30
40	0	8.2405973	11177	9.9999232	8.2422908	11182	1.7252072	20
50	0	8.2405699	11147	9.9999228	8.2423121	11152	1.7240450	10
5	0	8.2405424	11120	9.9999224	8.2423334	11124	1.7228828	55
10	0	8.2405149	11092	9.9999220	8.2423547	11096	1.7217205	50
20	0	8.2404873	11063	9.9999216	8.2423760	11068	1.7205582	40
30	0	8.2404597	11036	9.9999212	8.2423973	11039	1.7193959	30
40	0	8.2404320	11007	9.9999208	8.2424186	11012	1.7182336	20
50	0	8.2404043	10978	9.9999204	8.2424399	10983	1.7170713	10
6	0	8.2403766	10952	9.9999200	8.2424612	10956	1.7159090	54
10	0	8.2403489	10924	9.9999196	8.2424825	10928	1.7147467	50
20	0	8.2403212	10895	9.9999192	8.2425038	10901	1.7135844	40
30	0	8.2402935	10867	9.9999188	8.2425251	10874	1.7124221	30
40	0	8.2402658	10838	9.9999184	8.2425464	10847	1.7112598	20
50	0	8.2402381	10810	9.9999180	8.2425677	10820	1.7100975	10
7	0	8.2402104	10782	9.9999176	8.2425890	10793	1.7089352	53
10	0	8.2401827	10754	9.9999172	8.2426103	10766	1.7077729	50
20	0	8.2401550	10726	9.9999168	8.2426316	10739	1.7066106	40
30	0	8.2401273	10698	9.9999164	8.2426529	10713	1.7054483	30
40	0	8.2400996	10670	9.9999160	8.2426742	10686	1.7042860	20
50	0	8.2400719	10642	9.9999156	8.2426955	10659	1.7031237	10
8	0	8.2400442	10614	9.9999152	8.2427168	10634	1.7019614	52
10	0	8.2400165	10586	9.9999148	8.2427381	10608	1.7007991	50
20	0	8.2399888	10558	9.9999144	8.2427594	10583	1.7006368	40
30	0	8.2399611	10530	9.9999140	8.2427807	10557	1.7004745	30
40	0	8.2399334	10502	9.9999136	8.2428020	10532	1.7003122	20
50	0	8.2399057	10474	9.9999132	8.2428233	10506	1.7001499	10
9	0	8.2398780	10446	9.9999128	8.2428446	10481	1.6999876	51
10	0	8.2398503	10418	9.9999124	8.2428659	10455	1.6998253	50
20	0	8.2398226	10390	9.9999120	8.2428872	10430	1.6996630	40
30	0	8.2397949	10362	9.9999116	8.2429085	10405	1.6995007	30
40	0	8.2397672	10334	9.9999112	8.2429298	10380	1.6993384	20
50	0	8.2397395	10306	9.9999108	8.2429511	10355	1.6991761	10
10	0	8.2397118	10278	9.9999104	8.2429724	10330	1.6990138	55
11	0	8.2396841	10250	9.9999100	8.2429937	10305	1.6988515	50

88 deg.

1 deg.

i	"	l. sin.	diff.	l. cosin.	l. tang.	diff.	l. cotan.	"	i
10	0	8.3087941	10397	9.9999100	8.3088842	10398	1.6911138	0	50
10	10	8.3092868	10398	9.9999096	8.3093773	10396	1.6906217	10	50
10	20	8.3100078	10398	9.9999090	8.3100979	10396	1.6901301	20	50
10	30	8.3112848	10398	9.9999087	8.3113781	10396	1.6896393	30	50
10	40	8.3129101	10398	9.9999082	8.3129019	10396	1.6891481	40	50
10	50	8.3149334	10398	9.9999078	8.3149253	10396	1.6886577	50	50
11	0	8.3164536	10181	9.9999074	8.3164466	10186	1.6881683	0	49
11	10	8.3187717	10158	9.9999069	8.3187648	10162	1.6876789	10	49
11	20	8.3209876	10133	9.9999065	8.3209810	10138	1.6871900	20	49
11	30	8.3231000	10111	9.9999061	8.3230948	10114	1.6867008	30	49
11	40	8.3251119	10085	9.9999056	8.3251052	10092	1.6862138	40	49
11	50	8.3270288	10064	9.9999052	8.3270154	10071	1.6857284	50	49
12	0	8.3289469	10040	9.9999047	8.3289128	10046	1.6852437	0	48
12	10	8.3308509	10017	9.9999043	8.3308166	10021	1.6847594	10	48
12	20	8.3327386	9993	9.9999038	8.3327027	9998	1.6842753	20	48
12	30	8.3346119	9971	9.9999034	8.3345685	9976	1.6837915	30	48
12	40	8.3364800	9948	9.9999030	8.3364260	9953	1.6833079	40	48
12	50	8.3383438	9925	9.9999025	8.3383813	9930	1.6828246	50	48
13	0	8.3402033	9903	9.9999021	8.3401143	9907	1.6823416	0	47
13	10	8.3420586	9880	9.9999016	8.3420080	9884	1.6818586	10	47
13	20	8.3439096	9858	9.9999012	8.3439034	9862	1.6813756	20	47
13	30	8.3457564	9836	9.9999007	8.3457076	9840	1.6808926	30	47
13	40	8.3476039	9813	9.9999003	8.3476036	9818	1.6804096	40	47
13	50	8.3494469	9791	9.9998998	8.3494454	9795	1.6799266	50	47
14	0	8.3512863	9769	9.9998994	8.3512849	9774	1.6794436	0	46
14	10	8.3531212	9747	9.9998989	8.3531208	9751	1.6789606	10	46
14	20	8.3549525	9725	9.9998985	8.3549504	9730	1.6784776	20	46
14	30	8.3567804	9703	9.9998980	8.3567801	9708	1.6779946	30	46
14	40	8.3586047	9680	9.9998975	8.3586018	9686	1.6775116	40	46
14	50	8.3604256	9658	9.9998971	8.3604253	9665	1.6770286	50	46
15	0	8.3622439	9636	9.9998966	8.3622436	9643	1.6765456	0	45
15	10	8.3640586	9617	9.9998962	8.3640586	9622	1.6760626	10	45
15	20	8.3658698	9597	9.9998957	8.3658698	9601	1.6755796	20	45
15	30	8.3676776	9578	9.9998953	8.3676776	9580	1.6750966	30	45
15	40	8.3694819	9558	9.9998948	8.3694819	9560	1.6746136	40	45
15	50	8.3712826	9533	9.9998943	8.3712826	9538	1.6741306	50	45
16	0	8.3730798	9512	9.9998939	8.3730798	9516	1.6736476	0	44
16	10	8.3748735	9492	9.9998934	8.3748735	9496	1.6731646	10	44
16	20	8.3766637	9470	9.9998929	8.3766637	9475	1.6726816	20	44
16	30	8.3784504	9450	9.9998925	8.3784504	9456	1.6721986	30	44
16	40	8.3802336	9429	9.9998920	8.3802336	9434	1.6717156	40	44
16	50	8.3820133	9409	9.9998916	8.3820133	9414	1.6712326	50	44
17	0	8.3837896	9389	9.9998911	8.3837896	9390	1.6707496	0	43
17	10	8.3855624	9368	9.9998906	8.3855624	9373	1.6702666	10	43
17	20	8.3873326	9348	9.9998901	8.3873326	9353	1.6697836	20	43
17	30	8.3890991	9328	9.9998896	8.3890991	9333	1.6692996	30	43
17	40	8.3908618	9308	9.9998892	8.3908618	9313	1.6688166	40	43
17	50	8.3926210	9288	9.9998887	8.3926210	9293	1.6683336	50	43
18	0	8.3943776	9268	9.9998882	8.3943776	9273	1.6678506	0	42
18	10	8.3961303	9248	9.9998877	8.3961303	9253	1.6673676	10	42
18	20	8.3978791	9229	9.9998872	8.3978791	9234	1.6668846	20	42
18	30	8.3996240	9210	9.9998868	8.3996240	9214	1.6664016	30	42
18	40	8.4013650	9189	9.9998863	8.4013650	9194	1.6659186	40	42
18	50	8.4031021	9169	9.9998858	8.4031021	9176	1.6654356	50	42
19	0	8.4048353	9151	9.9998853	8.4048353	9156	1.6649526	0	41
19	10	8.4065645	9132	9.9998848	8.4065645	9136	1.6644696	10	41
19	20	8.4082896	9112	9.9998843	8.4082896	9118	1.6639866	20	41
19	30	8.4099996	9094	9.9998839	8.4099996	9098	1.6635036	30	41
19	40	8.4117053	9074	9.9998834	8.4117053	9080	1.6630206	40	41
19	50	8.4134076	9056	9.9998829	8.4134076	9060	1.6625376	50	41
20	0	8.4151064	9036	9.9998824	8.4151064	9040	1.6620546	0	40
20	10	8.4168017	9017	9.9998819	8.4168017	9021	1.6615716	10	40
20	20	8.4184934	8998	9.9998814	8.4184934	9002	1.6610886	20	40
20	30	8.4201816	8979	9.9998809	8.4201816	8993	1.6606056	30	40
20	40	8.4218663	8960	9.9998804	8.4218663	8974	1.6601226	40	40
20	50	8.4235476	8941	9.9998800	8.4235476	8955	1.6596396	50	40
20	60	8.4252254	8922	9.9998795	8.4252254	8936	1.6591566	60	40
20	70	8.4269007	8903	9.9998790	8.4269007	8917	1.6586736	70	40
20	80	8.4285735	8884	9.9998785	8.4285735	8898	1.6581906	80	40
20	90	8.4302438	8865	9.9998780	8.4302438	8879	1.6577076	90	40
20	100	8.4319116	8846	9.9998775	8.4319116	8860	1.6572246	100	40

88 deg.

1 deg.

/	"	l. sin.	dif.	l. cosin.	d.	l. tang.	dif.	l. cotan.	"	/
20	0	8,367769	9087	9,998824	5	8,3668945	9042	1,6331065	0	40
	10	8,3676806	9088	9,9988119	5	8,3667987	9043	1,6322013	50	
	20	8,3675824	9089	9,9987994	5	8,3667010	9044	1,6312990	40	
	30	8,3674823	9090	9,9987869	5	8,3666014	9045	1,6303985	30	
	40	8,3673804	9091	9,9987744	5	8,3665009	9046	1,6295001	20	
	50	8,3672766	9092	9,9987619	5	8,3664004	9047	1,6286033	10	
21	0	8,3671710	9093	9,9987494	5	8,3662999	9048	1,6277085	0	39
	10	8,3670635	9094	9,9987369	5	8,3662004	9049	1,6268155	50	
	20	8,3669542	9095	9,9987244	5	8,3661009	9050	1,6259243	40	
	30	8,3668430	9096	9,9987119	5	8,3660014	9051	1,6250349	30	
	40	8,3667301	9097	9,9986994	5	8,3659019	9052	1,6241473	20	
	50	8,3666153	9098	9,9986869	5	8,3658024	9053	1,6232616	10	
22	0	8,3665088	9099	9,9986744	5	8,3657029	9054	1,6223777	0	38
	10	8,3663984	9100	9,9986619	5	8,3656034	9055	1,6214955	50	
	20	8,3662860	9101	9,9986494	5	8,3655039	9056	1,6206151	40	
	30	8,3661718	9102	9,9986369	5	8,3654044	9057	1,6197366	30	
	40	8,3660547	9103	9,9986244	5	8,3653049	9058	1,6188597	20	
	50	8,3659352	9104	9,9986119	5	8,3652054	9059	1,6179847	10	
23	0	8,3658147	9105	9,9985994	5	8,3651059	9060	1,6171114	0	37
	10	8,3656920	9106	9,9985869	5	8,3650064	9061	1,6162399	50	
	20	8,3655673	9107	9,9985744	5	8,3649069	9062	1,6153701	40	
	30	8,3654408	9108	9,9985619	5	8,3648074	9063	1,6145020	30	
	40	8,3653127	9109	9,9985494	5	8,3647079	9064	1,6136357	20	
	50	8,3651832	9110	9,9985369	5	8,3646084	9065	1,6127710	10	
24	0	8,3650522	9111	9,9985244	5	8,3645089	9066	1,6119082	0	36
	10	8,3649199	9112	9,9985119	5	8,3644094	9067	1,6110470	50	
	20	8,3647861	9113	9,9984994	5	8,3643099	9068	1,6101875	40	
	30	8,3646509	9114	9,9984869	5	8,3642104	9069	1,6093297	30	
	40	8,3645143	9115	9,9984744	5	8,3641109	9070	1,6084736	20	
	50	8,3643763	9116	9,9984619	5	8,3640114	9071	1,6076192	10	
25	0	8,3642370	9117	9,9984494	5	8,3639119	9072	1,6067664	0	35
	10	8,3640973	9118	9,9984369	5	8,3638124	9073	1,6059154	50	
	20	8,3639572	9119	9,9984244	5	8,3637129	9074	1,6050660	40	
	30	8,3638167	9120	9,9984119	5	8,3636134	9075	1,6042182	30	
	40	8,3636758	9121	9,9983994	5	8,3635139	9076	1,6033721	20	
	50	8,3635344	9122	9,9983869	5	8,3634144	9077	1,6025276	10	
26	0	8,3633925	9123	9,9983744	5	8,3633149	9078	1,6016848	0	34
	10	8,3632501	9124	9,9983619	5	8,3632154	9079	1,6008436	50	
	20	8,3631072	9125	9,9983494	5	8,3631159	9080	1,6000041	40	
	30	8,3629639	9126	9,9983369	5	8,3630164	9081	1,5991661	30	
	40	8,3628199	9127	9,9983244	5	8,3629169	9082	1,5983298	20	
	50	8,3626754	9128	9,9983119	5	8,3628174	9083	1,5974950	10	
27	0	8,3625304	9129	9,9982994	5	8,3627179	9084	1,5966619	0	33
	10	8,3623849	9130	9,9982869	5	8,3626184	9085	1,5958304	50	
	20	8,3622389	9131	9,9982744	5	8,3625189	9086	1,5950004	40	
	30	8,3620924	9132	9,9982619	5	8,3624194	9087	1,5941720	30	
	40	8,3619454	9133	9,9982494	5	8,3623199	9088	1,5933452	20	
	50	8,3617979	9134	9,9982369	5	8,3622204	9089	1,5925200	10	
28	0	8,3616500	9135	9,9982244	5	8,3621209	9090	1,5916963	0	32
	10	8,3615016	9136	9,9982119	5	8,3620214	9091	1,5908742	50	
	20	8,3613527	9137	9,9981994	5	8,3619219	9092	1,5900537	40	
	30	8,3612033	9138	9,9981869	5	8,3618224	9093	1,5892347	30	
	40	8,3610534	9139	9,9981744	5	8,3617229	9094	1,5884172	20	
	50	8,3609030	9140	9,9981619	5	8,3616234	9095	1,5876012	10	
29	0	8,3607521	9141	9,9981494	5	8,3615239	9096	1,5867868	0	31
	10	8,3606007	9142	9,9981369	5	8,3614244	9097	1,5859739	50	
	20	8,3604488	9143	9,9981244	5	8,3613249	9098	1,5851626	40	
	30	8,3602964	9144	9,9981119	5	8,3612254	9099	1,5843527	30	
	40	8,3601435	9145	9,9980994	5	8,3611259	9100	1,5835444	20	
	50	8,3600000	9146	9,9980869	5	8,3610264	9101	1,5827375	10	
30	0	8,3598561	9147	9,9980744	5	8,3609269	9102	1,5819321	0	30
	10	8,3597117	9148	9,9980619	5	8,3608274	9103	1,5811282	50	
	20	8,3595668	9149	9,9980494	5	8,3607279	9104	1,5803257	40	
	30	8,3594214	9150	9,9980369	5	8,3606284	9105	1,5795244	30	
	40	8,3592755	9151	9,9980244	5	8,3605289	9106	1,5787242	20	
	50	8,3591291	9152	9,9980119	5	8,3604294	9107	1,5779250	10	
	60	8,3589822	9153	9,9979994	5	8,3603299	9108	1,5771268	0	

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1 deg.

"	"	l. sin.	diff.	l. cosin.	l. tang.	diff.	l. cotan.	"	"
10	0	8,3087941	10397	9,9999100	8,3088842	10398	1,6911158	50	0
10	10	8,3092868	10398	9,9999096	8,3093173	10398	1,6906087	50	10
10	20	8,3101879	10398	9,9999091	8,3102479	10398	1,6901016	50	20
10	30	8,3111848	10398	9,9999087	8,3111976	10398	1,6896030	50	30
10	40	8,3122901	10398	9,9999082	8,3122019	10398	1,6891038	50	40
10	50	8,3134931	10398	9,9999078	8,3134053	10398	1,6886041	50	50
11	0	8,3147956	10181	9,9999074	8,3146066	10186	1,6881038	49	0
11	10	8,3157917	10188	9,9999069	8,3156048	10186	1,6876036	49	10
11	20	8,3169975	10133	9,9999065	8,3170810	10138	1,6871030	49	20
11	30	8,3180008	10111	9,9999061	8,3180948	10114	1,6866028	49	30
11	40	8,3190119	10086	9,9999056	8,3191062	10092	1,6861026	49	40
11	50	8,3200288	10064	9,9999052	8,3201154	10067	1,6856024	49	50
12	0	8,3210469	10040	9,9999047	8,3211281	10045	1,6851022	48	0
12	10	8,3220669	10017	9,9999043	8,3221465	10021	1,6846020	48	10
12	20	8,3230886	9993	9,9999039	8,3231657	9998	1,6841018	48	20
12	30	8,3241119	9971	9,9999034	8,3241858	9975	1,6836016	48	30
12	40	8,3251369	9948	9,9999030	8,3252060	9953	1,6831014	48	40
12	50	8,3261633	9926	9,9999025	8,3262263	9930	1,6826012	48	50
13	0	8,3271913	9903	9,9999021	8,3272465	9907	1,6821010	47	0
13	10	8,3282206	9880	9,9999016	8,3282668	9884	1,6816008	47	10
13	20	8,3292514	9858	9,9999012	8,3292870	9862	1,6811006	47	20
13	30	8,3302834	9836	9,9999007	8,3303072	9840	1,6806004	47	30
13	40	8,3313169	9813	9,9999003	8,3313274	9818	1,6801002	47	40
13	50	8,3323518	9791	9,9998998	8,3323476	9795	1,6796000	47	50
14	0	8,3333873	9769	9,9998994	8,3333678	9774	1,6791000	46	0
14	10	8,3344232	9747	9,9998989	8,3343880	9751	1,6786000	46	10
14	20	8,3354595	9725	9,9998985	8,3354082	9730	1,6781000	46	20
14	30	8,3364962	9703	9,9998980	8,3364284	9708	1,6776000	46	30
14	40	8,3375332	9680	9,9998976	8,3374486	9686	1,6771000	46	40
14	50	8,3385705	9658	9,9998971	8,3384688	9665	1,6766000	46	50
15	0	8,3396081	9636	9,9998966	8,3394890	9643	1,6761000	45	0
15	10	8,3406458	9617	9,9998962	8,3405092	9629	1,6756000	45	10
15	20	8,3416838	9597	9,9998958	8,3415294	9601	1,6751000	45	20
15	30	8,3427219	9575	9,9998953	8,3425496	9580	1,6746000	45	30
15	40	8,3437602	9553	9,9998948	8,3435698	9558	1,6741000	45	40
15	50	8,3447986	9533	9,9998943	8,3445900	9538	1,6736000	45	50
16	0	8,3458373	9512	9,9998939	8,3456102	9516	1,6731000	44	0
16	10	8,3468762	9490	9,9998934	8,3466304	9496	1,6726000	44	10
16	20	8,3479152	9470	9,9998930	8,3476506	9475	1,6721000	44	20
16	30	8,3489543	9450	9,9998925	8,3486708	9455	1,6716000	44	30
16	40	8,3499935	9430	9,9998920	8,3496910	9434	1,6711000	44	40
16	50	8,3510328	9409	9,9998916	8,3507112	9414	1,6706000	44	50
17	0	8,3520722	9389	9,9998911	8,3517314	9393	1,6701000	43	0
17	10	8,3531117	9368	9,9998906	8,3527516	9373	1,6696000	43	10
17	20	8,3541513	9348	9,9998901	8,3537718	9353	1,6691000	43	20
17	30	8,3551910	9328	9,9998896	8,3547920	9333	1,6686000	43	30
17	40	8,3562308	9308	9,9998892	8,3558122	9313	1,6681000	43	40
17	50	8,3572706	9288	9,9998887	8,3568324	9293	1,6676000	43	50
18	0	8,3583105	9268	9,9998882	8,3578526	9273	1,6671000	42	0
18	10	8,3593504	9248	9,9998877	8,3588728	9253	1,6666000	42	10
18	20	8,3603903	9229	9,9998872	8,3598930	9234	1,6661000	42	20
18	30	8,3614302	9210	9,9998868	8,3609132	9214	1,6656000	42	30
18	40	8,3624701	9190	9,9998863	8,3619334	9194	1,6651000	42	40
18	50	8,3635100	9171	9,9998858	8,3629536	9175	1,6646000	42	50
19	0	8,3645500	9151	9,9998853	8,3639738	9156	1,6641000	41	0
19	10	8,3655900	9132	9,9998848	8,3649940	9136	1,6636000	41	10
19	20	8,3666300	9112	9,9998843	8,3660142	9118	1,6631000	41	20
19	30	8,3676700	9094	9,9998839	8,3670344	9098	1,6626000	41	30
19	40	8,3687100	9074	9,9998834	8,3680546	9080	1,6621000	41	40
19	50	8,3697500	9056	9,9998829	8,3690748	9060	1,6616000	41	50
20	0	8,3707900	9036	9,9998824	8,3700950	9040	1,6611000	40	0
20	10	8,3718300	9017	9,9998819	8,3711152	9021	1,6606000	40	10
20	20	8,3728700	8998	9,9998814	8,3721354	9002	1,6601000	40	20
20	30	8,3739100	8979	9,9998809	8,3731556	8983	1,6596000	40	30
20	40	8,3749500	8960	9,9998804	8,3741758	8964	1,6591000	40	40
20	50	8,3759900	8941	9,9998800	8,3751960	8945	1,6586000	40	50
21	0	8,3770300	8921	9,9998795	8,3762162	8926	1,6581000	39	0
21	10	8,3780700	8902	9,9998790	8,3772364	8907	1,6576000	39	10
21	20	8,3791100	8883	9,9998785	8,3782566	8888	1,6571000	39	20
21	30	8,3801500	8864	9,9998780	8,3792768	8869	1,6566000	39	30
21	40	8,3811900	8845	9,9998775	8,3802970	8850	1,6561000	39	40
21	50	8,3822300	8826	9,9998770	8,3813172	8831	1,6556000	39	50

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1 deg.

	"	L. sin.	diff.	L. cosin.	d.	L. tang.	diff.	L. cotan.	"	
20	0	8,3667769	9087	9,9998824	5	8,3668445	9042	1,6331055	0	40
	10	8,3670806	9018	9,9998819	5	8,3677987	9023	1,6328013	50	
	20	8,368824	8999	9,9998814	5	8,3687010	9004	1,6324990	40	
	30	8,3694823	8981	9,9998809	5	8,3696014	8985	1,6321985	30	
	40	8,3703804	8962	9,9998804	5	8,3704999	8968	1,6319001	20	
21	50	8,3712766	8944	9,9998799	5	8,3713967	8948	1,6316033	10	39
	0	8,3721710	8925	9,9998794	5	8,3722915	8930	1,6313085	0	
	10	8,3730655	8907	9,9998789	5	8,3731845	8912	1,6310155	50	
	20	8,3739542	8888	9,9998784	5	8,3740757	8894	1,6307243	40	
	30	8,3748430	8871	9,9998779	5	8,3749651	8875	1,6304349	30	
	40	8,3757301	8852	9,9998774	5	8,3758547	8857	1,6301473	20	
22	50	8,3766153	8835	9,9998769	5	8,3767384	8839	1,6298616	10	38
	0	8,3774988	8816	9,9998764	5	8,3776223	8822	1,6295777	0	
	10	8,3783804	8799	9,9998759	5	8,3785045	8804	1,6292955	50	
	20	8,3792603	8781	9,9998754	5	8,3793849	8785	1,6290151	40	
	30	8,3801384	8763	9,9998749	5	8,3802634	8769	1,6287366	30	
	40	8,3810147	8746	9,9998744	5	8,3811403	8750	1,6284597	20	
23	50	8,3818892	8728	9,9998739	5	8,3820153	8733	1,6281847	10	37
	0	8,3827620	8710	9,9998734	5	8,3828886	8715	1,6279114	0	
	10	8,3836330	8693	9,9998729	5	8,3837601	8698	1,6276399	50	
	20	8,3845023	8675	9,9998724	5	8,3846299	8681	1,6273701	40	
	30	8,3853699	8658	9,9998719	5	8,3854980	8663	1,6271020	30	
	40	8,3862357	8641	9,9998714	5	8,3863643	8647	1,6268357	20	
24	50	8,3870998	8624	9,9998709	5	8,3872290	8628	1,6265710	10	36
	0	8,3879622	8607	9,9998703	5	8,3880918	8612	1,6263082	0	
	10	8,3888229	8590	9,9998698	5	8,3889530	8595	1,6260470	50	
	20	8,3896818	8573	9,9998693	5	8,3898125	8578	1,6257875	40	
	30	8,3905391	8556	9,9998688	5	8,3906703	8561	1,6255297	30	
	40	8,3913947	8539	9,9998683	5	8,3915264	8544	1,6252736	20	
25	50	8,3922486	8522	9,9998678	5	8,3923808	8528	1,6250192	10	35
	0	8,3931008	8505	9,9998673	5	8,3932336	8510	1,6247664	0	
	10	8,3939513	8488	9,9998667	5	8,3940846	8494	1,6245154	50	
	20	8,3948002	8471	9,9998662	5	8,3949340	8478	1,6242660	40	
	30	8,3956475	8455	9,9998657	5	8,3957818	8461	1,6240182	30	
	40	8,3964930	8440	9,9998651	5	8,3966279	8445	1,6237721	20	
26	50	8,3973370	8423	9,9998646	5	8,3974724	8428	1,6235276	10	34
	0	8,3981793	8406	9,9998641	5	8,3983162	8412	1,6232848	0	
	10	8,3990199	8391	9,9998636	5	8,3991564	8395	1,6230436	50	
	20	8,3998590	8374	9,9998630	5	8,3999959	8380	1,6228041	40	
	30	8,4006964	8358	9,9998625	5	8,4008339	8363	1,6225661	30	
	40	8,4015322	8342	9,9998620	5	8,4016702	8348	1,6223298	20	
27	50	8,4023664	8326	9,9998614	5	8,4025050	8331	1,6220950	10	33
	0	8,4031990	8310	9,9998609	5	8,4033381	8315	1,6218619	0	
	10	8,4040300	8294	9,9998604	5	8,4041696	8300	1,6216304	50	
	20	8,4048594	8279	9,9998600	5	8,4049995	8284	1,6214004	40	
	30	8,4056873	8262	9,9998595	5	8,4058280	8268	1,6211720	30	
	40	8,4065135	8247	9,9998588	5	8,4066548	8252	1,6209452	20	
28	50	8,4073382	8230	9,9998582	5	8,4074800	8237	1,6207200	10	32
	0	8,4081614	8215	9,9998577	5	8,4083037	8221	1,6204963	0	
	10	8,4089829	8200	9,9998572	5	8,4091288	8205	1,6202742	50	
	20	8,4098029	8185	9,9998566	5	8,4099463	8190	1,6200537	40	
	30	8,4106214	8169	9,9998561	5	8,4107653	8175	1,6198347	30	
	40	8,4114383	8154	9,9998555	5	8,4115828	8160	1,6196172	20	
29	50	8,4122537	8139	9,9998550	5	8,4123988	8144	1,6194018	10	31
	0	8,4130676	8124	9,9998544	5	8,4132132	8129	1,6191885	0	
	10	8,4138800	8108	9,9998539	5	8,4140261	8113	1,6189773	50	
	20	8,4146908	8093	9,9998533	5	8,4148374	8109	1,6187685	40	
	30	8,4155001	8078	9,9998528	5	8,4156473	8083	1,6185617	30	
	40	8,4163079	8063	9,9998523	5	8,4164556	8069	1,6183564	20	
30	50	8,4171148	8048	9,9998517	5	8,4172625	8054	1,6181521	10	30
	0	8,4179190		9,9998512	5	8,4180679			0	
	"	L. cosin.	diff.	L. sin.	d.	L. cotan.	diff.	L. tang.	"	

88 deg.
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1 deg.

"	1. sin.	diff.	l. cosin.	d.	l. tang.	diff.	l. cotan.	"
40	8.463664	7830	9.9998162	6	8.4638486	7237	1.5361514	20
10	8.4643879	7818	9.9998166	6	8.4645723	7224	1.5354777	50
20	8.4651097	7806	9.9998160	6	8.4652947	7212	1.5347953	40
30	8.4658303	7194	9.9998144	6	8.4660159	7201	1.5339841	30
40	8.4665497	7183	9.9998138	6	8.4667360	7188	1.5330640	20
50	8.4672680	7170	9.9998132	6	8.4674548	7177	1.5321462	10
41	8.4679860	7159	9.9998126	6	8.4681728	7165	1.5312295	19
10	8.4687000	7147	9.9998119	6	8.4688890	7153	1.5311110	50
20	8.4694156	7135	9.9998113	6	8.4696043	7141	1.5303057	40
30	8.4701291	7123	9.9998107	6	8.4703184	7129	1.5295016	30
40	8.4708411	7112	9.9998101	7	8.4710313	7118	1.5286987	20
50	8.4715521	7100	9.9998094	7	8.4717431	7107	1.5280559	10
42	8.4722626	7088	9.9998088	6	8.4724538	7094	1.5275462	18
10	8.4729714	7077	9.9998082	6	8.4731632	7083	1.5268368	50
20	8.4736791	7065	9.9998076	6	8.4738715	7072	1.5261285	40
30	8.4743866	7054	9.9998069	6	8.4745787	7060	1.5254213	30
40	8.4750910	7043	9.9998063	6	8.4752847	7049	1.5247153	20
50	8.4757953	7031	9.9998057	7	8.4759896	7037	1.5240104	10
43	8.4764984	7019	9.9998050	6	8.4766933	7026	1.5233067	17
10	8.4772003	7009	9.9998044	6	8.4773969	7015	1.5226041	50
20	8.4779012	6997	9.9998038	6	8.4780974	7003	1.5219025	40
30	8.4786009	6985	9.9998031	7	8.4787977	6992	1.5212023	30
40	8.4792994	6973	9.9998025	6	8.4794969	6981	1.5205031	20
50	8.4799969	6961	9.9998019	6	8.4801950	6970	1.5198050	10
44	8.4806932	6950	9.9998012	6	8.4808928	6958	1.5191080	16
10	8.4813884	6941	9.9998006	6	8.4815898	6948	1.5184122	50
20	8.4820825	6930	9.9998000	6	8.4822865	6936	1.5177174	40
30	8.4827765	6919	9.9997993	6	8.4829822	6925	1.5170238	30
40	8.4834674	6908	9.9997987	7	8.4836787	6915	1.5163313	20
50	8.4841582	6897	9.9997980	6	8.4843760	6903	1.5156398	10
45	8.4848479	6886	9.9997974	6	8.4850706	6892	1.5149495	15
10	8.4855365	6875	9.9997968	7	8.4857637	6881	1.5142603	50
20	8.4862240	6864	9.9997961	6	8.4864579	6870	1.5135721	40
30	8.4869104	6853	9.9997955	7	8.4871514	6860	1.5128851	30
40	8.4875957	6843	9.9997948	6	8.4878400	6849	1.5121991	20
50	8.4882800	6832	9.9997942	6	8.4885288	6838	1.5115142	10
46	8.4889632	6821	9.9997935	6	8.4892169	6828	1.5108304	14
10	8.4896463	6810	9.9997929	7	8.4899054	6817	1.5101476	50
20	8.4903283	6800	9.9997922	6	8.4905934	6806	1.5094659	40
30	8.4910103	6789	9.9997916	7	8.4912817	6795	1.5087853	30
40	8.4916912	6778	9.9997909	6	8.4919694	6784	1.5081058	20
50	8.4923720	6768	9.9997903	7	8.4926577	6773	1.5074273	10
47	8.4930528	6757	9.9997896	6	8.4933458	6762	1.5067498	13
10	8.4937335	6747	9.9997889	6	8.4940336	6751	1.5060734	50
20	8.4944142	6736	9.9997883	7	8.4947219	6740	1.5053981	40
30	8.4950948	6726	9.9997876	6	8.4954096	6730	1.5047238	30
40	8.4957754	6715	9.9997870	7	8.4960974	6719	1.5040500	20
50	8.4964559	6705	9.9997863	7	8.4967851	6708	1.5033784	10
48	8.4971364	6695	9.9997856	6	8.4974728	6697	1.5027079	12
10	8.4978170	6684	9.9997850	7	8.4981609	6686	1.5020377	50
20	8.4984975	6673	9.9997843	6	8.4988482	6675	1.5013680	40
30	8.4991780	6663	9.9997837	7	8.4995350	6664	1.5006999	30
40	8.4998581	6654	9.9997830	7	8.5002222	6653	1.5000326	20
50	8.5005385	6643	9.9997823	7	8.5009094	6642	1.4993658	10
49	8.5012189	6634	9.9997817	6	8.5015962	6631	1.4986991	11
10	8.5018993	6623	9.9997810	7	8.5022832	6620	1.4980328	50
20	8.5025797	6613	9.9997803	7	8.5029699	6609	1.4973678	40
30	8.5032601	6603	9.9997797	7	8.5036567	6600	1.4967029	30
40	8.5039405	6593	9.9997790	7	8.5043431	6590	1.4960381	20
50	8.5046209	6583	9.9997783	7	8.5050295	6580	1.4953731	10
50	8.5053013	6573	9.9997776	7	8.5057159	6570	1.4947082	10
"	l. cosin.	diff.	l. sin.	d.	l. cotan.	diff.	l. tang.	"

88 deg.

1 deg.

	#	l. sin.	diff.	l. cosin.	d.	l. tang.	diff.	l. cotan.	#	i
50	0	8.6080447	6679	9.9977776	6	8.6080671	6679	1.4947399	0	10
	10	8.6080700	6683	9.9977770	7	8.6080925	6679	1.4947050	50	
	20	8.6080953	6687	9.9977763	7	8.6081178	6679	1.4946701	40	
	30	8.6081206	6693	9.9977756	7	8.6081430	6680	1.4946350	30	
	40	8.6081459	6694	9.9977749	6	8.6081682	6680	1.4946000	20	
	50	8.6081713	6693	9.9977743	7	8.6081934	6681	1.4945650	10	
51	0	8.6081966	6694	9.9977736	7	8.6082186	6681	1.4945300	0	9
	10	8.6082219	6694	9.9977729	7	8.6082438	6681	1.4944950	50	
	20	8.6082472	6694	9.9977722	7	8.6082690	6681	1.4944600	40	
	30	8.6082725	6693	9.9977715	7	8.6082942	6682	1.4944250	30	
	40	8.6082978	6693	9.9977708	6	8.6083194	6682	1.4943900	20	
	50	8.6083231	6693	9.9977702	7	8.6083446	6681	1.4943550	10	
52	0	8.6083484	6693	9.9977695	7	8.6083698	6682	1.4943200	0	8
	10	8.6083737	6693	9.9977688	7	8.6083950	6683	1.4942850	50	
	20	8.6083990	6693	9.9977681	7	8.6084202	6683	1.4942500	40	
	30	8.6084243	6693	9.9977674	7	8.6084454	6683	1.4942150	30	
	40	8.6084496	6693	9.9977667	7	8.6084706	6683	1.4941800	20	
	50	8.6084749	6693	9.9977660	7	8.6084958	6683	1.4941450	10	
53	0	8.6085002	6693	9.9977653	7	8.6085210	6683	1.4941100	0	7
	10	8.6085255	6693	9.9977646	6	8.6085462	6683	1.4940750	50	
	20	8.6085508	6693	9.9977640	7	8.6085714	6683	1.4940400	40	
	30	8.6085761	6693	9.9977633	7	8.6085966	6683	1.4940050	30	
	40	8.6086014	6693	9.9977626	7	8.6086218	6683	1.4939700	20	
	50	8.6086267	6693	9.9977619	7	8.6086470	6683	1.4939350	10	
54	0	8.6086520	6693	9.9977612	7	8.6086722	6683	1.4939000	0	6
	10	8.6086773	6693	9.9977605	7	8.6086974	6683	1.4938650	50	
	20	8.6087026	6693	9.9977598	7	8.6087226	6683	1.4938300	40	
	30	8.6087279	6693	9.9977591	7	8.6087478	6683	1.4937950	30	
	40	8.6087532	6693	9.9977584	7	8.6087730	6683	1.4937600	20	
	50	8.6087785	6693	9.9977577	7	8.6087982	6683	1.4937250	10	
55	0	8.6088038	6693	9.9977570	7	8.6088234	6683	1.4936900	0	5
	10	8.6088291	6693	9.9977563	7	8.6088486	6683	1.4936550	50	
	20	8.6088544	6693	9.9977556	8	8.6088738	6683	1.4936200	40	
	30	8.6088797	6693	9.9977548	7	8.6088990	6683	1.4935850	30	
	40	8.6089050	6693	9.9977541	7	8.6089242	6683	1.4935500	20	
	50	8.6089303	6693	9.9977534	7	8.6089494	6683	1.4935150	10	
56	0	8.6089556	6693	9.9977527	7	8.6089746	6683	1.4934800	0	4
	10	8.6089809	6693	9.9977520	7	8.6089998	6683	1.4934450	50	
	20	8.6090062	6693	9.9977513	7	8.6090250	6683	1.4934100	40	
	30	8.6090315	6693	9.9977506	7	8.6090502	6683	1.4933750	30	
	40	8.6090568	6693	9.9977499	7	8.6090754	6683	1.4933400	20	
	50	8.6090821	6693	9.9977491	8	8.6091006	6683	1.4933050	10	
57	0	8.6091074	6693	9.9977484	7	8.6091258	6683	1.4932700	0	3
	10	8.6091327	6693	9.9977477	7	8.6091510	6683	1.4932350	50	
	20	8.6091580	6693	9.9977470	7	8.6091762	6683	1.4932000	40	
	30	8.6091833	6693	9.9977463	7	8.6092014	6683	1.4931650	30	
	40	8.6092086	6693	9.9977456	8	8.6092266	6683	1.4931300	20	
	50	8.6092339	6693	9.9977448	7	8.6092518	6683	1.4930950	10	
58	0	8.6092592	6693	9.9977441	7	8.6092770	6683	1.4930600	0	2
	10	8.6092845	6693	9.9977434	7	8.6093022	6683	1.4930250	50	
	20	8.6093098	6693	9.9977427	8	8.6093274	6683	1.4929900	40	
	30	8.6093351	6693	9.9977419	7	8.6093526	6683	1.4929550	30	
	40	8.6093604	6693	9.9977412	7	8.6093778	6683	1.4929200	20	
	50	8.6093857	6693	9.9977405	7	8.6094030	6683	1.4928850	10	
59	0	8.6094110	6693	9.9977398	8	8.6094282	6683	1.4928500	0	1
	10	8.6094363	6693	9.9977390	7	8.6094534	6683	1.4928150	50	
	20	8.6094616	6693	9.9977383	7	8.6094786	6683	1.4927800	40	
	30	8.6094869	6693	9.9977376	8	8.6095038	6683	1.4927450	30	
	40	8.6095122	6693	9.9977368	7	8.6095290	6683	1.4927100	20	
	50	8.6095375	6693	9.9977361	7	8.6095542	6683	1.4926750	10	
60	0	8.6095628	6693	9.9977354	7	8.6095794	6683	1.4926400	0	0
i	#	l. cosin.	diff.	l. sin.	d.	l. cotan.	diff.	l. tang.	#	i

88 deg.

2 deg.

/	"	l. sin.	diff.	l. cosin.	d.	l. tang.	diff.	l. cotan.	"	/
10	0	8, 5775660	5561	9, 9996894	8	8, 5778766	5569	1, 4001234	50	50
	10	8, 5781981	5560	9, 9996886	8	8, 5784335	5563	1, 4001555	50	
	20	8, 5787776	5547	9, 9996878	8	8, 5789838	5555	1, 4001002	40	
	30	8, 5793033	5541	9, 9996870	8	8, 5795453	5548	1, 4000547	30	
	40	8, 5797864	5533	9, 9996862	8	8, 5801001	5540	1, 4198999	20	
	50	8, 5803357	5526	9, 9996854	8	8, 5806543	5534	1, 4198487	10	
11	0	8, 5808923	5519	9, 9996846	8	8, 5812077	5527	1, 4187923	0	49
	10	8, 5814442	5512	9, 9996838	8	8, 5817604	5520	1, 4182365	50	
	20	8, 5819954	5505	9, 9996830	8	8, 5823124	5514	1, 4176876	40	
	30	8, 5825460	5498	9, 9996822	8	8, 5828638	5506	1, 4171362	30	
	40	8, 5830968	5491	9, 9996814	8	8, 5834144	5499	1, 4165855	20	
	50	8, 5836440	5484	9, 9996806	8	8, 5839643	5493	1, 4160357	10	
12	0	8, 5841933	5478	9, 9996798	8	8, 5845136	5485	1, 4154854	0	48
	10	8, 5847411	5470	9, 9996790	8	8, 5850621	5479	1, 4149379	50	
	20	8, 5852881	5464	9, 9996782	8	8, 5856100	5471	1, 4143900	40	
	30	8, 5858345	5456	9, 9996773	8	8, 5861571	5465	1, 4138429	30	
	40	8, 5863801	5450	9, 9996765	8	8, 5867035	5458	1, 4132964	20	
	50	8, 5869251	5443	9, 9996757	8	8, 5872494	5451	1, 4127500	10	
13	0	8, 5874694	5436	9, 9996749	8	8, 5877945	5444	1, 4122035	0	47
	10	8, 5880130	5430	9, 9996741	8	8, 5883389	5438	1, 4116561	50	
	20	8, 5885560	5422	9, 9996733	8	8, 5888827	5431	1, 4111173	40	
	30	8, 5890982	5416	9, 9996724	8	8, 5894258	5424	1, 4105742	30	
	40	8, 5896398	5409	9, 9996716	8	8, 5899682	5417	1, 4100318	20	
	50	8, 5901807	5402	9, 9996708	8	8, 5905100	5410	1, 4094901	10	
14	0	8, 5907209	5395	9, 9996700	8	8, 5910509	5404	1, 4089491	0	46
	10	8, 5912605	5389	9, 9996692	8	8, 5915913	5397	1, 4084087	50	
	20	8, 5917994	5382	9, 9996683	8	8, 5921310	5391	1, 4078680	40	
	30	8, 5923376	5375	9, 9996675	8	8, 5926701	5384	1, 4073269	30	
	40	8, 5928751	5369	9, 9996667	8	8, 5932085	5377	1, 4067861	20	
	50	8, 5934120	5363	9, 9996659	8	8, 5937462	5370	1, 4062453	10	
15	0	8, 5939483	5356	9, 9996650	8	8, 5942838	5364	1, 4057048	0	45
	10	8, 5944838	5349	9, 9996642	8	8, 5948210	5357	1, 4051644	50	
	20	8, 5950187	5343	9, 9996634	8	8, 5953583	5351	1, 4046247	40	
	30	8, 5955530	5336	9, 9996626	8	8, 5958954	5344	1, 4040850	30	
	40	8, 5960865	5330	9, 9996617	8	8, 5964324	5338	1, 4035453	20	
	50	8, 5966195	5322	9, 9996609	8	8, 5969695	5331	1, 4030054	10	
16	0	8, 5971517	5317	9, 9996601	8	8, 5975067	5324	1, 4024653	0	44
	10	8, 5976834	5310	9, 9996592	8	8, 5980431	5318	1, 4019259	50	
	20	8, 5982143	5303	9, 9996584	8	8, 5985795	5312	1, 4013864	40	
	30	8, 5987446	5297	9, 9996576	8	8, 5991157	5305	1, 4008469	30	
	40	8, 5992743	5290	9, 9996567	8	8, 5996517	5299	1, 4003084	20	
	50	8, 5998033	5284	9, 9996559	8	8, 6001878	5292	1, 3997698	10	
17	0	8, 6003317	5278	9, 9996550	8	8, 6007237	5285	1, 3992303	0	43
	10	8, 6008595	5271	9, 9996542	8	8, 6012593	5279	1, 3986907	50	
	20	8, 6013865	5264	9, 9996534	8	8, 6017933	5273	1, 3981512	40	
	30	8, 6019130	5258	9, 9996526	8	8, 6023265	5267	1, 3976117	30	
	40	8, 6024388	5252	9, 9996517	8	8, 6028597	5260	1, 3970722	20	
	50	8, 6029640	5246	9, 9996508	8	8, 6033913	5254	1, 3965327	10	
18	0	8, 6034886	5239	9, 9996500	8	8, 6039228	5247	1, 3959932	0	42
	10	8, 6040125	5232	9, 9996491	8	8, 6044533	5240	1, 3954537	50	
	20	8, 6045357	5226	9, 9996483	8	8, 6049837	5235	1, 3949142	40	
	30	8, 6050584	5220	9, 9996474	8	8, 6055140	5228	1, 3943747	30	
	40	8, 6055804	5214	9, 9996466	8	8, 6060438	5222	1, 3938352	20	
	50	8, 6061018	5208	9, 9996457	8	8, 6065735	5216	1, 3932957	10	
19	0	8, 6066226	5201	9, 9996449	8	8, 6071027	5210	1, 3927562	0	41
	10	8, 6071427	5195	9, 9996440	8	8, 6076319	5203	1, 3922167	50	
	20	8, 6076622	5189	9, 9996432	8	8, 6081610	5198	1, 3916772	40	
	30	8, 6081811	5183	9, 9996423	8	8, 6086901	5191	1, 3911377	30	
	40	8, 6086994	5177	9, 9996415	8	8, 6092192	5185	1, 3905982	20	
	50	8, 6092171	5170	9, 9996406	8	8, 6097483	5179	1, 3900587	10	
20	0	8, 6097341		9, 9996398	8	8, 6102774			0	40
/	"	l. cosin.	diff.	l. sin.	d.	l. cotan.	diff.	l. tang.	"	/

87 deg.

2 deg.

"	#	k. sin.	diff.	l. cosin.	d.	l. tang.	diff.	l. cotan.	#	"
20	0	8,6097341	5164	9,9996398	9	8,6100943	5173	1,3899057	0	40
	10	8,6102855	5158	9,9996389	9	8,6106116	5167	1,3893884	50	
	20	8,6107663	5152	9,9996380	9	8,6111283	5160	1,3888717	40	
	30	8,6112815	5146	9,9996372	9	8,6116443	5153	1,3883557	30	
	40	8,6117961	5140	9,9996363	9	8,6121598	5146	1,3878402	20	
	50	8,6123101	5134	9,9996355	9	8,6126746	5140	1,3873254	10	
21	0	8,6128236	5127	9,9996346	9	8,6131889	5133	1,3868111	0	39
	10	8,6133366	5121	9,9996337	9	8,6137026	5126	1,3862975	50	
	20	8,6138484	5115	9,9996329	9	8,6142155	5120	1,3857845	40	
	30	8,6143599	5110	9,9996320	9	8,6147279	5113	1,3852722	30	
	40	8,6148707	5103	9,9996311	9	8,6152397	5107	1,3847603	20	
	50	8,6153812	5098	9,9996303	9	8,6157509	5101	1,3842491	10	
22	0	8,6158910	5091	9,9996294	9	8,6162616	5094	1,3837384	0	38
	10	8,6164001	5086	9,9996285	9	8,6167716	5088	1,3832284	50	
	20	8,6169087	5079	9,9996277	9	8,6172810	5083	1,3827190	40	
	30	8,6174168	5074	9,9996268	9	8,6177898	5076	1,3822102	30	
	40	8,6179240	5067	9,9996259	9	8,6182981	5070	1,3817019	20	
	50	8,6184307	5062	9,9996250	9	8,6188057	5063	1,3811943	10	
23	0	8,6189369	5056	9,9996242	9	8,6193127	5056	1,3806873	0	37
	10	8,6194425	5050	9,9996233	9	8,6198192	5050	1,3801808	50	
	20	8,6199478	5044	9,9996224	9	8,6203251	5043	1,3796749	40	
	30	8,6204519	5038	9,9996215	9	8,6208304	5037	1,3791695	30	
	40	8,6209557	5032	9,9996206	9	8,6213351	5031	1,3786640	20	
	50	8,6214589	5027	9,9996198	9	8,6218392	5025	1,3781598	10	
24	0	8,6219616	5021	9,9996189	9	8,6223427	5020	1,3776579	0	36
	10	8,6224637	5015	9,9996180	9	8,6228457	5013	1,3771543	50	
	20	8,6229652	5009	9,9996171	9	8,6233480	5008	1,3766509	40	
	30	8,6234661	5003	9,9996162	9	8,6238498	5003	1,3761482	30	
	40	8,6239664	4998	9,9996153	9	8,6243511	4997	1,3756459	20	
	50	8,6244662	4991	9,9996145	9	8,6248517	4991	1,3751433	10	
25	0	8,6249653	4986	9,9996136	9	8,6253518	4985	1,3746412	0	35
	10	8,6254639	4981	9,9996127	9	8,6258513	4979	1,3741387	50	
	20	8,6259620	4974	9,9996118	9	8,6263502	4973	1,3736364	40	
	30	8,6264594	4969	9,9996109	9	8,6268485	4967	1,3731341	30	
	40	8,6269563	4964	9,9996100	9	8,6273463	4961	1,3726317	20	
	50	8,6274527	4957	9,9996091	9	8,6278435	4955	1,3721293	10	
26	0	8,6279484	4952	9,9996082	9	8,6283402	4950	1,3716268	0	34
	10	8,6284436	4946	9,9996073	9	8,6288363	4943	1,3711237	50	
	20	8,6289382	4941	9,9996064	9	8,6293318	4938	1,3706202	40	
	30	8,6294323	4936	9,9996055	9	8,6298268	4933	1,3701172	30	
	40	8,6299268	4930	9,9996046	9	8,6303211	4927	1,3696139	20	
	50	8,6304187	4924	9,9996037	9	8,6308150	4921	1,3691105	10	
27	0	8,6309111	4918	9,9996028	9	8,6313083	4915	1,3686071	0	33
	10	8,6314029	4913	9,9996019	9	8,6318010	4909	1,3681030	50	
	20	8,6318942	4907	9,9996010	9	8,6322931	4903	1,3675989	40	
	30	8,6323849	4901	9,9996001	9	8,6327849	4897	1,3670948	30	
	40	8,6328750	4896	9,9995992	9	8,6332758	4891	1,3665907	20	
	50	8,6333646	4891	9,9995983	9	8,6337663	4885	1,3660867	10	
28	0	8,6338537	4885	9,9995974	9	8,6342565	4880	1,3655827	0	32
	10	8,6343422	4879	9,9995965	9	8,6347457	4874	1,3650786	50	
	20	8,6348301	4874	9,9995956	9	8,6352345	4868	1,3645745	40	
	30	8,6353175	4868	9,9995947	9	8,6357228	4863	1,3640704	30	
	40	8,6358043	4863	9,9995938	9	8,6362106	4857	1,3635663	20	
	50	8,6362905	4858	9,9995929	9	8,6366978	4851	1,3630622	10	
29	0	8,6367764	4852	9,9995919	10	8,6371845	4846	1,3625581	0	31
	10	8,6372616	4847	9,9995910	9	8,6376706	4840	1,3620540	50	
	20	8,6377463	4841	9,9995901	9	8,6381562	4835	1,3615500	40	
	30	8,6382304	4836	9,9995892	9	8,6386412	4830	1,3610459	30	
	40	8,6387140	4831	9,9995883	9	8,6391267	4824	1,3605418	20	
	50	8,6391971	4826	9,9995874	9	8,6396127	4819	1,3600377	10	
30	0	8,6396796	4820	9,9995865	9	8,6400931	4814	1,3595336	0	30
"	#	l. cosin.	diff.	l. sin.	d.	l. cotan.	diff.	l. tang.	#	"

37 deg.

2 deg.

'	"	l. sin.	diff.	l. cosin.	d.	l. tang.	diff.	l. cotan.	"	'
30	0	8.636795	4819	9.9998865	10	8.6400931	4820	1.3899069	0	30
	10	8.6401615	4815	9.9998865	9	8.6405760	4824	1.3894840	50	
	20	8.6405430	4809	9.9998864	9	8.6410584	4828	1.3890615	40	
	30	8.6411239	4804	9.9998863	9	8.6415402	4831	1.3886392	30	
	40	8.6416043	4798	9.9998861	9	8.6420215	4835	1.3882168	20	
	50	8.6420841	4792	9.9998858	9	8.6425023	4838	1.3877947	10	
31	0	8.6425634	4788	9.9998859	9	8.6429825	4842	1.3873725	0	29
	10	8.6430428	4782	9.9998860	9	8.6434622	4847	1.3869502	50	
	20	8.6435224	4778	9.9998861	9	8.6439414	4851	1.3865278	40	
	30	8.6439982	4773	9.9998862	9	8.6444202	4855	1.3861053	30	
	40	8.6444764	4766	9.9998872	9	8.6448982	4859	1.3856828	20	
	50	8.6449520	4762	9.9998875	9	8.6453758	4863	1.3852602	10	
32	0	8.6454280	4756	9.9998873	9	8.6458528	4867	1.3848375	0	28
	10	8.6459038	4751	9.9998874	9	8.6463294	4871	1.3844147	50	
	20	8.6463792	4745	9.9998875	9	8.6468054	4875	1.3839918	40	
	30	8.6468552	4741	9.9998876	9	8.6472810	4879	1.3835688	30	
	40	8.6473296	4736	9.9998876	9	8.6477560	4883	1.3831457	20	
	50	8.6478011	4731	9.9998877	9	8.6482305	4887	1.3827225	10	
33	0	8.6482748	4726	9.9998877	9	8.6487044	4891	1.3822992	0	27
	10	8.6487467	4720	9.9998888	9	8.6491779	4895	1.3818758	50	
	20	8.6492187	4715	9.9998889	9	8.6496508	4899	1.3814523	40	
	30	8.6496908	4710	9.9998890	9	8.6501233	4903	1.3810287	30	
	40	8.6501618	4704	9.9998890	9	8.6505958	4907	1.3806050	20	
	50	8.6506316	4700	9.9998890	9	8.6510666	4911	1.3801812	10	
34	0	8.6511016	4694	9.9998891	9	8.6515375	4915	1.3797573	0	26
	10	8.6515710	4690	9.9998893	9	8.6520079	4919	1.3793333	50	
	20	8.6520400	4684	9.9998894	9	8.6524778	4923	1.3789092	40	
	30	8.6525084	4679	9.9998895	9	8.6529471	4927	1.3784850	30	
	40	8.6529765	4674	9.9998896	9	8.6534160	4931	1.3780607	20	
	50	8.6534437	4670	9.9998897	9	8.6538844	4935	1.3776363	10	
35	0	8.6539107	4664	9.9998898	9	8.6543522	4939	1.3772118	0	25
	10	8.6543771	4659	9.9998899	9	8.6548205	4943	1.3767872	50	
	20	8.6548430	4654	9.9998900	9	8.6552885	4947	1.3763625	40	
	30	8.6553084	4649	9.9998901	9	8.6557562	4951	1.3759377	30	
	40	8.6557733	4644	9.9998902	9	8.6562237	4955	1.3755128	20	
	50	8.6562377	4640	9.9998903	9	8.6566911	4959	1.3750877	10	
36	0	8.6567017	4634	9.9998904	9	8.6571580	4963	1.3746625	0	24
	10	8.6571651	4629	9.9998905	9	8.6576253	4967	1.3742372	50	
	20	8.6576280	4624	9.9998906	9	8.6580922	4971	1.3738118	40	
	30	8.6580904	4620	9.9998907	9	8.6585586	4975	1.3733863	30	
	40	8.6585524	4614	9.9998908	9	8.6590255	4979	1.3729607	20	
	50	8.6590138	4610	9.9998909	9	8.6594919	4983	1.3725350	10	
37	0	8.6594748	4605	9.9998910	9	8.6599579	4987	1.3721092	0	23
	10	8.6599353	4599	9.9998911	9	8.6604233	4991	1.3716833	50	
	20	8.6603952	4595	9.9998912	9	8.6608882	4995	1.3712573	40	
	30	8.6608547	4590	9.9998913	9	8.6613527	4999	1.3708312	30	
	40	8.6613137	4586	9.9998914	9	8.6618167	5003	1.3704050	20	
	50	8.6617723	4582	9.9998915	9	8.6622802	5007	1.3700000	10	
38	0	8.6622303	4578	9.9998916	9	8.6627432	5011	1.3695748	0	22
	10	8.6626878	4571	9.9998917	9	8.6632057	5015	1.3691495	50	
	20	8.6631446	4566	9.9998918	9	8.6636677	5019	1.3687240	40	
	30	8.6636015	4561	9.9998919	9	8.6641292	5023	1.3682983	30	
	40	8.6640575	4556	9.9998920	9	8.6645902	5027	1.3678725	20	
	50	8.6645130	4552	9.9998921	9	8.6650507	5031	1.3674466	10	
39	0	8.6649684	4547	9.9998922	9	8.6655107	5035	1.3670205	0	21
	10	8.6654231	4542	9.9998923	9	8.6659702	5039	1.3665943	50	
	20	8.6658773	4537	9.9998924	9	8.6664292	5043	1.3661679	40	
	30	8.6663310	4532	9.9998925	9	8.6668877	5047	1.3657414	30	
	40	8.6667848	4528	9.9998926	9	8.6673457	5051	1.3653148	20	
	50	8.6672379	4523	9.9998927	9	8.6678032	5055	1.3648881	10	
40	0	8.6676903	4519	9.9998928	9	8.6682602	5059	1.3644612	0	20
'	"	l. cosin.	diff.	l. sin.	d.	l. cotan.	diff.	l. tang.	"	'

67 deg.

2 deg.

l.	"	l. sin.	diff.	l. cosin.	d.	l. tang.	diff.	l. cotan.	"	l.
40	0	8,6676893	4518	9,9995295	10	8,6681598	4589	1,3318402	0	20
	10	8,6681411	4514	9,9995285	10	8,6686127	4583	1,3313893	50	
	20	8,6685925	4509	9,9995275	10	8,6690650	4576	1,3309350	40	
	30	8,6690434	4504	9,9995265	10	8,6695169	4569	1,3304831	30	
	40	8,6694938	4499	9,9995255	10	8,6699683	4560	1,3300317	20	
	50	8,6699437	4495	9,9995245	9	8,6704192	4553	1,3295808	10	
41	0	8,6703932	4490	9,9995235	9	8,6708697	4545	1,3291303	0	19
	10	8,6708422	4486	9,9995225	10	8,6713197	4495	1,3286803	50	
	20	8,6712908	4481	9,9995215	10	8,6717692	4486	1,3282308	40	
	30	8,6717389	4476	9,9995205	10	8,6722183	4477	1,3277817	30	
	40	8,6721865	4472	9,9995195	10	8,6726669	4468	1,3273331	20	
	50	8,6726337	4467	9,9995185	10	8,6731151	4458	1,3268849	10	
42	0	8,6730804	4462	9,9995175	10	8,6735628	4447	1,3264372	0	18
	10	8,6735266	4458	9,9995165	10	8,6740100	4438	1,3259900	50	
	20	8,6739724	4453	9,9995155	10	8,6744568	4428	1,3255432	40	
	30	8,6744177	4449	9,9995145	10	8,6749031	4419	1,3250969	30	
	40	8,6748626	4444	9,9995135	10	8,6753490	4409	1,3246510	20	
	50	8,6753070	4440	9,9995125	10	8,6757944	4400	1,3242056	10	
43	0	8,6757510	4435	9,9995115	10	8,6762393	4390	1,3237607	0	17
	10	8,6761945	4430	9,9995105	10	8,6766839	4380	1,3233161	50	
	20	8,6766375	4426	9,9995095	10	8,6771279	4370	1,3228719	40	
	30	8,6770801	4422	9,9995085	10	8,6775715	4360	1,3224285	30	
	40	8,6775223	4417	9,9995075	10	8,6780147	4350	1,3219853	20	
	50	8,6779640	4412	9,9995065	10	8,6784573	4340	1,3215427	10	
44	0	8,6784052	4408	9,9995055	10	8,6788996	4330	1,3211004	0	16
	10	8,6788460	4404	9,9995045	10	8,6793414	4320	1,3206586	50	
	20	8,6792864	4399	9,9995035	10	8,6797828	4310	1,3202172	40	
	30	8,6797263	4394	9,9995025	10	8,6802237	4300	1,3197763	30	
	40	8,6801657	4390	9,9995015	10	8,6806641	4290	1,3193359	20	
	50	8,6806047	4386	9,9995005	10	8,6811042	4280	1,3188958	10	
45	0	8,6810433	4381	9,9994995	10	8,6815437	4270	1,3184563	0	15
	10	8,6814814	4377	9,9994985	11	8,6819829	4260	1,3180171	50	
	20	8,6819191	4372	9,9994975	11	8,6824216	4250	1,3175784	40	
	30	8,6823563	4378	9,9994965	10	8,6828598	4240	1,3171402	30	
	40	8,6827931	4373	9,9994955	10	8,6832976	4230	1,3167024	20	
	50	8,6832295	4369	9,9994945	10	8,6837350	4220	1,3162650	10	
46	0	8,6836654	4365	9,9994935	10	8,6841719	4210	1,3158281	0	14
	10	8,6841009	4360	9,9994925	11	8,6846084	4200	1,3153916	50	
	20	8,6845355	4357	9,9994914	10	8,6850445	4190	1,3149555	40	
	30	8,6849700	4351	9,9994904	10	8,6854801	4180	1,3145199	30	
	40	8,6854047	4348	9,9994894	10	8,6859153	4170	1,3140847	20	
	50	8,6858385	4343	9,9994884	10	8,6863501	4160	1,3136499	10	
47	0	8,6862718	4338	9,9994874	10	8,6867844	4150	1,3132156	0	13
	10	8,6867045	4335	9,9994863	11	8,6872183	4140	1,3127817	50	
	20	8,6871371	4330	9,9994853	10	8,6876518	4130	1,3123482	40	
	30	8,6875691	4316	9,9994843	10	8,6880848	4120	1,3119152	30	
	40	8,6880007	4311	9,9994833	11	8,6885174	4110	1,3114826	20	
	50	8,6884318	4307	9,9994822	10	8,6889495	4100	1,3110504	10	
48	0	8,6888628	4303	9,9994812	10	8,6893813	4090	1,3106187	0	12
	10	8,6892928	4299	9,9994802	11	8,6898126	4080	1,3101874	50	
	20	8,6897227	4294	9,9994791	11	8,6902436	4070	1,3097565	40	
	30	8,6901521	4290	9,9994781	10	8,6906740	4060	1,3093260	30	
	40	8,6905811	4286	9,9994771	11	8,6911041	4050	1,3088955	20	
	50	8,6910097	4282	9,9994760	11	8,6915337	4040	1,3084653	10	
49	0	8,6914379	4277	9,9994750	10	8,6919629	4030	1,3080371	0	11
	10	8,6918656	4273	9,9994740	11	8,6923917	4020	1,3076083	50	
	20	8,6922929	4269	9,9994729	11	8,6928200	4010	1,3071800	40	
	30	8,6927198	4265	9,9994719	10	8,6932479	4000	1,3067521	30	
	40	8,6931463	4261	9,9994709	11	8,6936758	3990	1,3063245	20	
	50	8,6935728	4256	9,9994698	11	8,6941038	3980	1,3058974	10	
50	0	8,6939980	4256	9,9994688	11	8,6945302	3970	1,3054708	0	10
l.	"	l. cosin.	diff.	l. sin.	d.	l. cotan.	diff.	l. tang.	"	l.

2 deg.

/	#	l. sin.	diff.	l. cosin.	d.	l. tang.	diff.	l. cotan.	/	#
50	0	8.6939980	4052	9.9994688	11	8.6945929	4053	1.3054708	10	0
	10	8.6944430	4048	9.9994677	10	8.6945555	4050	1.3054445		50
	20	8.6948480	4044	9.9994667	11	8.6953814	4054	1.3045186		40
	30	8.6952724	4040	9.9994656	10	8.6958068	4050	1.3041930		30
	40	8.6956564	4036	9.9994646	11	8.6962318	4046	1.3037682		20
51	50	8.6961200	4031	9.9994635	10	8.6966564	4042	1.3033436		10
	0	8.6965431	4028	9.9994625	10	8.6970806	4038	1.3029194		0
	10	8.6969669	4023	9.9994615	11	8.6975044	4034	1.3024956		50
	20	8.6973882	4019	9.9994604	10	8.6979278	4029	1.3020722		40
	30	8.6978101	4015	9.9994594	11	8.6983507	4025	1.3016493		30
	40	8.6982316	4011	9.9994583	11	8.6987733	4021	1.3012267		20
52	50	8.6986537	4007	9.9994572	10	8.6991964	4018	1.3008046		10
	0	8.6990734	4002	9.9994562	11	8.6996172	4013	1.3003828		0
	10	8.6994936	4199	9.9994551	10	8.7000385	4009	1.2999615		50
	20	8.6999135	4195	9.9994541	11	8.7004594	4005	1.2995406		40
	30	8.7003330	4190	9.9994530	10	8.7008799	4001	1.2991201		30
	40	8.7007520	4187	9.9994520	11	8.7013000	4197	1.2987000		20
53	50	8.7011707	4182	9.9994509	11	8.7017197	4193	1.2982802		10
	0	8.7015889	4178	9.9994498	10	8.7021390	4190	1.2978616		0
	10	8.7020067	4175	9.9994488	11	8.7025580	4186	1.2974420		50
	20	8.7024242	4170	9.9994477	10	8.7029765	4181	1.2970236		40
	30	8.7028412	4166	9.9994467	11	8.7033946	4176	1.2966054		30
	40	8.7032578	4163	9.9994456	11	8.7038122	4173	1.2961878		20
54	50	8.7036741	4158	9.9994445	10	8.7042295	4170	1.2957702		10
	0	8.7040899	4155	9.9994435	11	8.7046465	4165	1.2953535		0
	10	8.7045054	4150	9.9994424	10	8.7050630	4161	1.2949370		50
	20	8.7049204	4146	9.9994413	11	8.7054791	4157	1.2945209		40
	30	8.7053350	4143	9.9994403	11	8.7058948	4153	1.2941056		30
	40	8.7057493	4138	9.9994392	11	8.7063101	4149	1.2936909		20
55	50	8.7061631	4135	9.9994381	11	8.7067250	4145	1.2932750		10
	0	8.7065766	4130	9.9994370	10	8.7071395	4142	1.2928595		0
	10	8.7069896	4127	9.9994360	11	8.7075537	4137	1.2924443		50
	20	8.7074023	4123	9.9994349	10	8.7079674	4134	1.2920296		40
	30	8.7078146	4119	9.9994338	11	8.7083808	4130	1.2916152		30
	40	8.7082265	4115	9.9994328	11	8.7087937	4126	1.2912003		20
56	50	8.7086380	4110	9.9994317	11	8.7092063	4122	1.2907857		10
	0	8.7090490	4108	9.9994306	11	8.7096185	4117	1.2903715		0
	10	8.7094598	4103	9.9994295	11	8.7100302	4114	1.2899568		50
	20	8.7098701	4099	9.9994284	10	8.7104416	4111	1.2895424		40
	30	8.7102800	4095	9.9994274	11	8.7108527	4106	1.2891273		30
	40	8.7106896	4091	9.9994263	11	8.7112633	4102	1.2887127		20
57	50	8.7110987	4088	9.9994252	11	8.7116735	4099	1.2882986		10
	0	8.7115075	4084	9.9994241	11	8.7120834	4095	1.2878849		0
	10	8.7119159	4080	9.9994230	11	8.7124929	4090	1.2874711		50
	20	8.7123239	4076	9.9994219	11	8.7129019	4087	1.2870571		40
	30	8.7127315	4072	9.9994208	10	8.7133106	4084	1.2866439		30
	40	8.7131387	4069	9.9994198	11	8.7137190	4079	1.2862310		20
58	50	8.7135456	4064	9.9994187	11	8.7141269	4076	1.2858173		10
	0	8.7139522	4061	9.9994176	11	8.7145345	4072	1.2854055		0
	10	8.7143581	4057	9.9994166	11	8.7149417	4068	1.2850003		50
	20	8.7147638	4054	9.9994154	11	8.7153485	4064	1.2846051		40
	30	8.7151692	4049	9.9994143	11	8.7157549	4060	1.2842151		30
	40	8.7155741	4045	9.9994132	11	8.7161609	4057	1.2838301		20
59	50	8.7159787	4042	9.9994121	11	8.7165666	4053	1.2834434		10
	0	8.7163829	4038	9.9994110	11	8.7169719	4049	1.2830581		0
	10	8.7167867	4034	9.9994099	11	8.7173768	4045	1.2826722		50
	20	8.7171902	4030	9.9994088	11	8.7177813	4042	1.2822877		40
	30	8.7175934	4027	9.9994077	11	8.7181855	4038	1.2819046		30
	40	8.7179963	4023	9.9994066	11	8.7185893	4034	1.2815217		20
60	50	8.7183988	4020	9.9994055	11	8.7189927	4031	1.2811393		10
	0	8.7188008	4016	9.9994044	11	8.7193958	4027	1.2807572		0
/	/	l. cosin.	diff.	l. sin.	d.	l. cotan.	diff.	l. tang.	/	/

87 deg.

'	"	l. sin.	diff. 10"	l. cosin.	d. 10"	l. tang.	diff. 10"	l. cotan.	"	'
0	0	8.7188002	4015	9.9994044	11	8.7195968	4066	1.9806048	0	60
0	30	8.7200038	4004	9.9994011	11	8.7200038	4016	1.9793773	30	0
1	0	8.7212040	3992	9.9993978	11	8.7212040	3964	1.9781577	0	30
1	30	8.7224010	3980	9.9993944	11	8.7224010	3912	1.9769355	30	0
2	0	8.7235946	3972	9.9993911	11	8.7235946	3860	1.9757127	0	30
2	30	8.7247850	3960	9.9993877	11	8.7247850	3808	1.9744895	30	0
3	0	8.7259721	3950	9.9993844	11	8.7259721	3756	1.9732658	0	30
3	30	8.7271559	3939	9.9993810	11	8.7271559	3704	1.9720411	30	0
4	0	8.7283366	3928	9.9993776	11	8.7283366	3652	1.9708164	0	30
4	30	8.7295140	3917	9.9993742	11	8.7295140	3600	1.9695917	30	0
5	0	8.7306882	3907	9.9993708	11	8.7306882	3548	1.9683669	0	30
5	30	8.7318593	3896	9.9993674	11	8.7318593	3496	1.9671422	30	0
6	0	8.7330272	3885	9.9993640	11	8.7330272	3444	1.9659175	0	30
6	30	8.7341919	3874	9.9993606	12	8.7341919	3392	1.9646928	30	0
7	0	8.7353536	3865	9.9993572	12	8.7353536	3340	1.9634681	0	30
7	30	8.7365120	3855	9.9993537	12	8.7365120	3288	1.9622434	30	0
8	0	8.7376675	3844	9.9993503	12	8.7376675	3236	1.9610187	0	30
8	30	8.7388198	3836	9.9993468	12	8.7388198	3184	1.9597940	30	0
9	0	8.7399691	3824	9.9993433	12	8.7399691	3132	1.9585693	0	30
9	30	8.7411154	3814	9.9993398	12	8.7411154	3080	1.9573446	30	0
10	0	8.7422586	3804	9.9993364	12	8.7422586	3028	1.9561199	0	30
10	30	8.7433988	3794	9.9993329	12	8.7433988	2976	1.9548952	30	0
11	0	8.7445360	3784	9.9993295	12	8.7445360	2924	1.9536705	0	30
11	30	8.7456702	3774	9.9993260	12	8.7456702	2872	1.9524458	30	0
12	0	8.7468015	3765	9.9993226	12	8.7468015	2820	1.9512211	0	30
12	30	8.7479299	3754	9.9993191	12	8.7479299	2768	1.9500064	30	0
13	0	8.7490553	3744	9.9993156	12	8.7490553	2716	1.9487817	0	30
13	30	8.7501777	3736	9.9993121	12	8.7501777	2664	1.9475570	30	0
14	0	8.7512973	3726	9.9993086	12	8.7512973	2612	1.9463323	0	30
14	30	8.7524140	3716	9.9993051	12	8.7524140	2560	1.9451076	30	0
15	0	8.7535278	3706	9.9993016	12	8.7535278	2508	1.9438829	0	30
15	30	8.7546388	3697	9.9992981	12	8.7546388	2456	1.9426582	30	0
16	0	8.7557469	3687	9.9992946	12	8.7557469	2404	1.9414335	0	30
16	30	8.7568522	3678	9.9992911	12	8.7568522	2352	1.9402088	30	0
17	0	8.7579546	3669	9.9992876	12	8.7579546	2300	1.9389841	0	30
17	30	8.7590543	3659	9.9992841	12	8.7590543	2248	1.9377594	30	0
18	0	8.7601512	3650	9.9992806	13	8.7601512	2196	1.9365347	0	30
18	30	8.7612463	3641	9.9992771	13	8.7612463	2144	1.9353100	30	0
19	0	8.7623366	3632	9.9992736	13	8.7623366	2092	1.9340853	0	30
19	30	8.7634229	3623	9.9992701	13	8.7634229	2040	1.9328606	30	0
20	0	8.7645111	3613	9.9992666	13	8.7645111	1988	1.9316359	0	30
20	30	8.7655943	3604	9.9992631	13	8.7655943	1936	1.9304112	30	0
21	0	8.7666747	3595	9.9992596	13	8.7666747	1884	1.9291865	0	30
21	30	8.7677525	3586	9.9992561	13	8.7677525	1832	1.9279618	30	0
22	0	8.7688276	3578	9.9992526	13	8.7688276	1780	1.9267371	0	30
22	30	8.7699000	3568	9.9992491	13	8.7699000	1728	1.9255124	30	0
23	0	8.7709697	3560	9.9992456	13	8.7709697	1676	1.9242877	0	30
23	30	8.7720369	3551	9.9992421	13	8.7720369	1624	1.9230630	30	0
24	0	8.7731014	3542	9.9992386	13	8.7731014	1572	1.9218383	0	30
24	30	8.7741633	3533	9.9992351	13	8.7741633	1520	1.9206136	30	0
25	0	8.7752226	3525	9.9992316	13	8.7752226	1468	1.9193889	0	30
25	30	8.7762793	3516	9.9992281	13	8.7762793	1416	1.9181642	30	0
26	0	8.7773334	3508	9.9992246	13	8.7773334	1364	1.9169395	0	30
26	30	8.7783850	3499	9.9992211	13	8.7783850	1312	1.9157148	30	0
27	0	8.7794340	3491	9.9992176	13	8.7794340	1260	1.9144901	0	30
27	30	8.7804805	3482	9.9992141	13	8.7804805	1208	1.9132654	30	0
28	0	8.7815244	3475	9.9992106	13	8.7815244	1156	1.9120407	0	30
28	30	8.7825669	3466	9.9992071	13	8.7825669	1104	1.9108160	30	0
29	0	8.7836048	3458	9.9992036	13	8.7836048	1052	1.9095913	0	30
29	30	8.7846413	3449	9.9992001	13	8.7846413	1000	1.9083666	30	0
30	0	8.7856753	10"	9.9991966	10"	8.7856753	10"	1.9071419	0	30
'	"	l. cosin.	diff.	l. sin.	d.	l. cotan.	diff.	l. tang.	"	'

3 deg.

"	l. sin.	diff.	l. cosin.	d.	l. tang.	diff.	l. cotan.	"
10'	10'	10'	10'	10'	10'	10'	10'	10'
30	0 8,7866753	3441	9,9991892	13	8,7864861	3484	1,8136130	0 30
31	0 8,7867068	3433	9,9991853	13	8,7875215	3446	1,8124783	0 29
32	0 8,7867385	3424	9,9991815	13	8,7885544	3438	1,8114465	0 28
33	0 8,7867702	3416	9,9991776	13	8,7895849	3430	1,8104151	0 27
34	0 8,7868019	3408	9,9991737	13	8,7906130	3422	1,8093870	0 26
35	0 8,7868334	3401	9,9991698	13	8,7916387	3413	1,8083613	0 25
36	0 8,7868648	3393	9,9991659	14	8,7926620	3405	1,8073380	0 24
37	0 8,7868962	3384	9,9991619	13	8,7936829	3397	1,8063171	0 23
38	0 8,7869276	3376	9,9991580	13	8,7947014	3390	1,8052986	0 22
39	0 8,7869590	3369	9,9991541	14	8,7957178	3382	1,8042825	0 21
40	0 8,7869904	3361	9,9991501	13	8,7967313	3374	1,8032687	0 20
41	0 8,7870218	3353	9,9991461	13	8,7977428	3366	1,8022570	0 19
42	0 8,7870532	3345	9,9991422	13	8,7987519	3359	1,8012481	0 18
43	0 8,7870846	3338	9,9991382	14	8,7997587	3351	1,8002413	0 17
44	0 8,7871160	3330	9,9991342	13	8,8007632	3343	1,7992368	0 16
45	0 8,8008956	3322	9,9991302	13	8,8017654	3335	1,7982346	0 15
46	0 8,8009270	3315	9,9991262	13	8,8027653	3328	1,7972347	0 14
47	0 8,8009584	3307	9,9991222	14	8,8037629	3321	1,7962371	0 13
48	0 8,8009898	3300	9,9991182	13	8,8047583	3313	1,7952417	0 12
49	0 8,8010212	3292	9,9991141	13	8,8057514	3305	1,7942486	0 11
50	0 8,8010526	3285	9,9991101	14	8,8067428	3298	1,7932578	0 10
51	0 8,8010840	3277	9,9991060	13	8,8077309	3290	1,7922691	0 9
52	0 8,8011154	3270	9,9991020	14	8,8087178	3283	1,7912828	0 8
53	0 8,8011468	3262	9,9990979	13	8,8097014	3276	1,7902986	0 7
54	0 8,8011782	3255	9,9990938	13	8,8106834	3268	1,7893166	0 6
55	0 8,8107599	3247	9,9990897	13	8,8116631	3260	1,7883366	0 5
56	0 8,8107913	3240	9,9990856	14	8,8126407	3254	1,7873583	0 4
57	0 8,8108227	3232	9,9990815	13	8,8136161	3247	1,7863819	0 3
58	0 8,8108541	3225	9,9990774	13	8,8145894	3239	1,7854066	0 2
59	0 8,8108855	3217	9,9990733	14	8,8155605	3232	1,7844335	0 1
60	0 8,8109169	3211	9,9990691	13	8,8165394	3225	1,7834626	0 0
61	0 8,8109483	3204	9,9990650	14	8,8175162	3218	1,7824938	0 0
62	0 8,8109797	3197	9,9990608	13	8,8184908	3211	1,7815270	0 0
63	0 8,8110111	3190	9,9990567	14	8,8194634	3204	1,7805622	0 0
64	0 8,8110425	3183	9,9990525	13	8,8204338	3197	1,7796004	0 0
65	0 8,8203005	3176	9,9990483	14	8,8214028	3190	1,7786416	0 0
66	0 8,8203319	3169	9,9990441	13	8,8223694	3183	1,7776858	0 0
67	0 8,8203633	3162	9,9990399	14	8,8233336	3176	1,7767330	0 0
68	0 8,8203947	3155	9,9990357	13	8,8242954	3169	1,7757832	0 0
69	0 8,8204261	3148	9,9990315	14	8,8252547	3162	1,7748364	0 0
70	0 8,8204575	3141	9,9990273	13	8,8262126	3155	1,7738926	0 0
71	0 8,8204889	3134	9,9990230	14	8,8271685	3148	1,7729518	0 0
72	0 8,8205203	3128	9,9990188	13	8,8281224	3141	1,7720130	0 0
73	0 8,8205517	3121	9,9990145	14	8,8290743	3135	1,7710762	0 0
74	0 8,8205831	3114	9,9990103	15	8,8299711	3128	1,7701414	0 0
75	0 8,8206145	3108	9,9990060	13	8,8308719	3121	1,7692086	0 0
76	0 8,8206459	3101	9,9990017	14	8,8317747	3115	1,7682778	0 0
77	0 8,8206773	3094	9,9989974	13	8,8326784	3108	1,7673490	0 0
78	0 8,8207087	3087	9,9989931	14	8,8335834	3102	1,7664222	0 0
79	0 8,8207401	3081	9,9989888	13	8,8344899	3096	1,7654974	0 0
80	0 8,8207715	3074	9,9989845	14	8,8353972	3089	1,7645746	0 0
81	0 8,8208029	3068	9,9989802	15	8,8363071	3083	1,7636528	0 0
82	0 8,8208343	3062	9,9989758	13	8,8372181	3076	1,7627330	0 0
83	0 8,8208657	3055	9,9989715	15	8,8381303	3069	1,7618152	0 0
84	0 8,8208971	3048	9,9989671	14	8,8390433	3063	1,7609004	0 0
85	0 8,8209285	3042	9,9989628	15	8,8400014	3057	1,7600006	0 0
86	0 8,8209599	3035	9,9989584	13	8,8409977	3050	1,7591058	0 0
87	0 8,8209913	3029	9,9989540	15	8,8419911	3043	1,7582160	0 0
88	0 8,8210227	3023	9,9989496	13	8,8429824	3037	1,7573312	0 0
89	0 8,8210541	3016	9,9989452	15	8,8439711	3031	1,7564514	0 0
90	0 8,8210855	3010	9,9989408	13	8,8449577	3025	1,7555766	0 0
91	0 8,8211169	3004	9,9989364	15	8,8459422	3019	1,7547068	0 0
92	0 8,8211483	2998	9,9989320	13	8,8469247	3013	1,7538420	0 0
93	0 8,8211797	2992	9,9989276	15	8,8479062	3007	1,7529822	0 0
94	0 8,8212111	2986	9,9989232	13	8,8488867	3001	1,7521274	0 0
95	0 8,8212425	2980	9,9989188	15	8,8498662	2995	1,7512776	0 0
96	0 8,8212739	2974	9,9989144	13	8,8508447	2989	1,7504328	0 0
97	0 8,8213053	2968	9,9989100	15	8,8518222	2983	1,7495930	0 0
98	0 8,8213367	2962	9,9989056	13	8,8528007	2977	1,7487582	0 0
99	0 8,8213681	2956	9,9989012	15	8,8537782	2971	1,7479284	0 0
100	0 8,8213995	2950	9,9988968	13	8,8547557	2965	1,7471006	0 0

86 deg.

4 deg.

	N	l. sin.	diff.	l. cosin.	d.	l. tang.	diff.	l. cotan.		
		10''			10''		10''			
0	0	8.8435845	3010	9.9989408	15	8.8446437	3008	1.1533663	0	60
	30	8.8444869	3004	9.9989364	15	8.8455461	3019	1.1544465	30	30
1	0	8.8453894	2997	9.9989319	15	8.8464484	3013	1.1556446	0	60
	30	8.8462860	2991	9.9989275	15	8.8473508	3006	1.1568415	30	30
2	0	8.8471827	2985	9.9989230	15	8.8482532	3000	1.1579403	0	60
	30	8.8480776	2979	9.9989186	15	8.8491556	2994	1.1590410	30	30
3	0	8.8489707	2972	9.9989141	15	8.8500580	2987	1.1601434	0	60
	30	8.8498619	2966	9.9989096	14	8.8509604	2982	1.1612478	30	30
4	0	8.8507512	2961	9.9989052	15	8.8518628	2975	1.1623539	0	60
	30	8.8516388	2954	9.9989007	15	8.8527652	2970	1.1634619	30	30
5	0	8.8525245	2948	9.9988962	15	8.8536676	2964	1.1645717	0	60
	30	8.8534084	2942	9.9988916	15	8.8545700	2957	1.1656832	30	30
6	0	8.8542905	2937	9.9988871	15	8.8554724	2951	1.1667966	0	60
	30	8.8551708	2931	9.9988826	15	8.8563748	2945	1.1679118	30	30
7	0	8.8560493	2925	9.9988780	15	8.8572772	2940	1.1690287	0	60
	30	8.8569261	2918	9.9988735	15	8.8581796	2934	1.1701474	30	30
8	0	8.8578010	2913	9.9988689	15	8.8590820	2928	1.1712679	0	60
	30	8.8586742	2907	9.9988644	15	8.8599844	2922	1.1723901	30	30
9	0	8.8595457	2900	9.9988598	15	8.8608868	2916	1.1735141	0	60
	30	8.8604153	2896	9.9988552	15	8.8617892	2911	1.1746409	30	30
10	0	8.8612833	2889	9.9988506	15	8.8626916	2904	1.1757693	0	60
	30	8.8621495	2883	9.9988460	15	8.8635940	2898	1.1768995	30	30
11	0	8.8630139	2878	9.9988414	16	8.8644964	2893	1.1780317	0	60
	30	8.8638766	2872	9.9988368	16	8.8653988	2887	1.1791649	30	30
12	0	8.8647376	2867	9.9988321	15	8.8663012	2882	1.1802991	0	60
	30	8.8655969	2861	9.9988275	16	8.8672036	2876	1.1814353	30	30
13	0	8.8664545	2855	9.9988228	16	8.8681060	2870	1.1825735	0	60
	30	8.8673104	2849	9.9988182	16	8.8690084	2864	1.1837137	30	30
14	0	8.8681646	2844	9.9988135	16	8.8699108	2859	1.1848559	0	60
	30	8.8690171	2838	9.9988088	15	8.8708132	2854	1.1859991	30	30
15	0	8.8698680	2832	9.9988041	15	8.8717156	2848	1.1871443	0	60
	30	8.8707171	2827	9.9987994	16	8.8726180	2842	1.1882915	30	30
16	0	8.8715646	2821	9.9987947	15	8.8735204	2837	1.1894407	0	60
	30	8.8724105	2815	9.9987900	16	8.8744228	2831	1.1905919	30	30
17	0	8.8732546	2811	9.9987853	16	8.8753252	2826	1.1917451	0	60
	30	8.8740972	2804	9.9987805	15	8.8762276	2821	1.1928993	30	30
18	0	8.8749381	2799	9.9987758	16	8.8771300	2815	1.1940555	0	60
	30	8.8757773	2794	9.9987710	15	8.8780324	2810	1.1952137	30	30
19	0	8.8766150	2788	9.9987663	16	8.8789348	2804	1.1963739	0	60
	30	8.8774510	2783	9.9987615	16	8.8798372	2799	1.1975361	30	30
20	0	8.8782854	2777	9.9987567	16	8.8807396	2794	1.1986993	0	60
	30	8.8791181	2773	9.9987519	16	8.8816420	2788	1.1998645	30	30
21	0	8.8799493	2767	9.9987471	16	8.8825444	2783	1.2010317	0	60
	30	8.8807789	2762	9.9987423	16	8.8834468	2778	1.2021999	30	30
22	0	8.8816069	2756	9.9987375	16	8.8843492	2773	1.2033691	0	60
	30	8.8824333	2751	9.9987327	16	8.8852516	2768	1.2045393	30	30
23	0	8.8832581	2746	9.9987278	16	8.8861540	2762	1.2057115	0	60
	30	8.8840814	2741	9.9987230	16	8.8870564	2757	1.2068857	30	30
24	0	8.8849031	2735	9.9987181	16	8.8879588	2751	1.2080619	0	60
	30	8.8857232	2731	9.9987133	17	8.8888612	2746	1.2092391	30	30
25	0	8.8865418	2725	9.9987084	16	8.8897636	2741	1.2104173	0	60
	30	8.8873588	2720	9.9987035	16	8.8906660	2736	1.2115975	30	30
26	0	8.8881713	2715	9.9986986	16	8.8915684	2731	1.2127797	0	60
	30	8.8889833	2709	9.9986937	16	8.8924708	2726	1.2139639	30	30
27	0	8.8897907	2704	9.9986888	16	8.8933732	2721	1.2151491	0	60
	30	8.8906016	2699	9.9986839	17	8.8942756	2716	1.2163353	30	30
28	0	8.8914090	2695	9.9986790	17	8.8951780	2711	1.2175225	0	60
	30	8.8922298	2689	9.9986740	16	8.8960804	2706	1.2187107	30	30
29	0	8.8930351	2685	9.9986691	17	8.8969828	2701	1.2198999	0	60
	30	8.8938408	2679	9.9986641	16	8.8978852	2696	1.2210901	30	30
30	0	8.8946433		9.9986591		8.8987876		1.2222823	0	60
		10''			10''		10''			
	N	l. cosin.	diff.	l. sin.	d.	l. cotan.	diff.	l. tang.		

85 deg.
17*

5 deg.

°	'	l. sin.		d.	l. tang.		d.	l. cotan.		°	'
		10''	10''		10''	10''		10''	10''		
0	0	8.9400960	2405	9.9983442	18	8.9440518	2404	1.0580482	0	60	0
0	30	8.9410174	2402	9.9983387	19	8.9440577	2400	1.0579523	0	30	0
1	0	8.9417376	2398	9.9983332	19	8.9440644	2417	1.0578565	0	0	30
1	30	8.9424566	2394	9.9983276	18	8.9441083	2415	1.0577611	0	0	0
2	0	8.9431743	2390	9.9983220	18	8.9443823	2408	1.0576657	0	0	0
2	30	8.9438909	2386	9.9983165	19	8.9445744	2405	1.0575703	0	0	0
3	0	8.9446065	2382	9.9983109	19	8.9446905	2401	1.0574749	0	0	0
3	30	8.9453205	2378	9.9983053	18	8.9470162	2397	1.0573795	0	0	0
4	0	8.9460335	2374	9.9982997	18	8.9477338	2395	1.0572841	0	0	0
4	30	8.9467454	2370	9.9982941	19	8.9484513	2389	1.0571887	0	0	0
5	0	8.9474561	2366	9.9982885	19	8.9491676	2385	1.0570933	0	0	0
5	30	8.9481656	2362	9.9982829	19	8.9498827	2381	1.0570000	0	0	0
6	0	8.9488739	2359	9.9982772	18	8.9505967	2377	1.0569066	0	0	0
6	30	8.9495811	2355	9.9982716	18	8.9513095	2375	1.0568132	0	0	0
7	0	8.9502871	2351	9.9982660	19	8.9520211	2370	1.0567198	0	0	0
7	30	8.9509920	2347	9.9982603	19	8.9527317	2365	1.0566264	0	0	0
8	0	8.9516957	2343	9.9982546	19	8.9534410	2363	1.0565330	0	0	0
8	30	8.9523982	2340	9.9982489	19	8.9541493	2358	1.0564397	0	0	0
9	0	8.9530995	2336	9.9982433	19	8.9548564	2354	1.0563463	0	0	0
9	30	8.9537999	2332	9.9982376	19	8.9555624	2350	1.0562529	0	0	0
10	0	8.9544991	2328	9.9982318	19	8.9562672	2347	1.0561595	0	0	0
10	30	8.9551971	2324	9.9982261	19	8.9569709	2344	1.0560661	0	0	0
11	0	8.9558940	2320	9.9982204	19	8.9576735	2340	1.0559727	0	0	0
11	30	8.9565897	2317	9.9982147	19	8.9583750	2336	1.0558793	0	0	0
12	0	8.9572843	2313	9.9982089	19	8.9590764	2332	1.0557859	0	0	0
12	30	8.9579779	2309	9.9982032	19	8.9597777	2328	1.0556925	0	0	0
13	0	8.9586703	2305	9.9981974	19	8.9604788	2325	1.0555991	0	0	0
13	30	8.9593615	2302	9.9981916	19	8.9611793	2321	1.0555057	0	0	0
14	0	8.9600517	2298	9.9981859	19	8.9618795	2317	1.0554123	0	0	0
14	30	8.9607408	2294	9.9981801	20	8.9625797	2314	1.0553189	0	0	0
15	0	8.9614288	2291	9.9981743	20	8.9632745	2310	1.0552255	0	0	0
15	30	8.9621157	2287	9.9981685	20	8.9639672	2306	1.0551321	0	0	0
16	0	8.9628014	2284	9.9981626	19	8.9646538	2303	1.0550387	0	0	0
16	30	8.9634861	2280	9.9981568	19	8.9653393	2299	1.0549453	0	0	0
17	0	8.9641697	2277	9.9981510	19	8.9660248	2295	1.0548519	0	0	0
17	30	8.9648523	2273	9.9981451	19	8.9667071	2292	1.0547585	0	0	0
18	0	8.9655337	2269	9.9981393	19	8.9673944	2288	1.0546651	0	0	0
18	30	8.9662141	2265	9.9981334	19	8.9680807	2285	1.0545717	0	0	0
19	0	8.9668934	2262	9.9981275	19	8.9687658	2282	1.0544783	0	0	0
19	30	8.9675716	2258	9.9981217	20	8.9694499	2278	1.0543849	0	0	0
20	0	8.9682487	2255	9.9981158	20	8.9701330	2274	1.0542915	0	0	0
20	30	8.9689248	2252	9.9981099	20	8.9708150	2271	1.0541981	0	0	0
21	0	8.9695999	2247	9.9981040	20	8.9714965	2268	1.0541047	0	0	0
21	30	8.9702738	2245	9.9980980	19	8.9721778	2264	1.0540113	0	0	0
22	0	8.9709468	2240	9.9980921	20	8.9728577	2260	1.0539179	0	0	0
22	30	8.9716186	2238	9.9980862	20	8.9735365	2257	1.0538245	0	0	0
23	0	8.9722895	2233	9.9980802	20	8.9742142	2254	1.0537311	0	0	0
23	30	8.9729592	2231	9.9980743	20	8.9748916	2250	1.0536377	0	0	0
24	0	8.9736280	2227	9.9980683	20	8.9755677	2247	1.0535443	0	0	0
24	30	8.9742957	2223	9.9980623	20	8.9762434	2243	1.0534509	0	0	0
25	0	8.9749624	2220	9.9980563	20	8.9769180	2240	1.0533575	0	0	0
25	30	8.9756280	2217	9.9980503	20	8.9775917	2236	1.0532641	0	0	0
26	0	8.9762926	2213	9.9980443	20	8.9782643	2233	1.0531707	0	0	0
26	30	8.9769562	2210	9.9980383	20	8.9789370	2229	1.0530773	0	0	0
27	0	8.9776188	2206	9.9980323	20	8.9796096	2226	1.0529839	0	0	0
27	30	8.9782803	2203	9.9980263	20	8.9802824	2223	1.0528905	0	0	0
28	0	8.9789408	2200	9.9980202	20	8.9809550	2220	1.0527971	0	0	0
28	30	8.9796004	2196	9.9980142	20	8.9816276	2216	1.0527037	0	0	0
29	0	8.9802589	2192	9.9980081	20	8.9822997	2213	1.0526103	0	0	0
29	30	8.9809164	2189	9.9980021	21	8.9829714	2210	1.0525169	0	0	0
30	0	8.9815729		9.9979960		8.9836426		1.0524235	0	0	0
		10''		10''		10''		10''			
°	'	l. cosin.		d.	l. cotan.		d.	l. tang.		°	'
		10''	10''		10''	10''		10''	10''		

84 deg.

5 deg.

1	"	l. sin.	diff.	l. cosin.	d.	l. tang.	diff.	l. cotan.	"	1
		10'			10'		10'			
30	0	8.9815729	2185	9.9979960	2185	8.9833769	2185	1.0164631	0	30
30	30	8.9822884	2182	9.9979978	2182	8.9833785	2182	1.0167615	0	30
31	0	8.9829889	2179	9.9979993	2179	8.9833801	2179	1.0170609	0	29
31	30	8.9836844	2176	9.9979999	2176	8.9833817	2176	1.0173603	0	29
32	0	8.9843849	2173	9.9979999	2173	8.9833833	2173	1.0176597	0	28
32	30	8.9850804	2170	9.9979999	2170	8.9833849	2170	1.0179591	0	28
33	0	8.9857809	2166	9.9979999	2166	8.9833865	2166	1.0182585	0	27
33	30	8.9864814	2163	9.9979999	2163	8.9833881	2163	1.0185579	0	27
34	0	8.9871819	2160	9.9979999	2160	8.9833897	2160	1.0188573	0	26
34	30	8.9878824	2157	9.9979999	2157	8.9833913	2157	1.0191567	0	26
35	0	8.9885829	2153	9.9979999	2153	8.9833929	2153	1.0194561	0	25
35	30	8.9892834	2150	9.9979999	2150	8.9833945	2150	1.0197555	0	25
36	0	8.9899839	2147	9.9979999	2147	8.9833961	2147	1.0200549	0	24
36	30	8.9906844	2144	9.9979999	2144	8.9833977	2144	1.0203543	0	24
37	0	8.9913849	2141	9.9979999	2141	8.9833993	2141	1.0206537	0	23
37	30	8.9920854	2138	9.9979999	2138	8.9834009	2138	1.0209531	0	23
38	0	8.9927859	2134	9.9979999	2134	8.9834025	2134	1.0212525	0	22
38	30	8.9934864	2131	9.9979999	2131	8.9834041	2131	1.0215519	0	22
39	0	8.9941869	2128	9.9979999	2128	8.9834057	2128	1.0218513	0	21
39	30	8.9948874	2125	9.9979999	2125	8.9834073	2125	1.0221507	0	21
40	0	8.9955879	2121	9.9979999	2121	8.9834089	2121	1.0224501	0	20
40	30	8.9962884	2118	9.9979999	2118	8.9834105	2118	1.0227495	0	20
41	0	8.9969889	2115	9.9979999	2115	8.9834121	2115	1.0230489	0	19
41	30	8.9976894	2112	9.9979999	2112	8.9834137	2112	1.0233483	0	19
42	0	8.9983899	2109	9.9979999	2109	8.9834153	2109	1.0236477	0	18
42	30	8.9990904	2106	9.9979999	2106	8.9834169	2106	1.0239471	0	18
43	0	8.9997909	2103	9.9979999	2103	8.9834185	2103	1.0242465	0	17
43	30	9.0004914	2100	9.9979999	2100	8.9834201	2100	1.0245459	0	17
44	0	9.0011919	2097	9.9979999	2097	8.9834217	2097	1.0248453	0	16
44	30	9.0018924	2094	9.9979999	2094	8.9834233	2094	1.0251447	0	16
45	0	9.0025929	2090	9.9979999	2090	8.9834249	2090	1.0254441	0	15
45	30	9.0032934	2088	9.9979999	2088	8.9834265	2088	1.0257435	0	15
46	0	9.0039939	2085	9.9979999	2085	8.9834281	2085	1.0260429	0	14
46	30	9.0046944	2082	9.9979999	2082	8.9834297	2082	1.0263423	0	14
47	0	9.0053949	2078	9.9979999	2078	8.9834313	2078	1.0266417	0	13
47	30	9.0060954	2075	9.9979999	2075	8.9834329	2075	1.0269411	0	13
48	0	9.0067959	2072	9.9979999	2072	8.9834345	2072	1.0272405	0	12
48	30	9.0074964	2069	9.9979999	2069	8.9834361	2069	1.0275399	0	12
49	0	9.0081969	2065	9.9979999	2065	8.9834377	2065	1.0278393	0	11
49	30	9.0088974	2063	9.9979999	2063	8.9834393	2063	1.0281387	0	11
50	0	9.0095979	2059	9.9979999	2059	8.9834409	2059	1.0284381	0	10
50	30	9.0102984	2057	9.9979999	2057	8.9834425	2057	1.0287375	0	10
51	0	9.0109989	2055	9.9979999	2055	8.9834441	2055	1.0290369	0	9
51	30	9.0116994	2052	9.9979999	2052	8.9834457	2052	1.0293363	0	9
52	0	9.0123999	2049	9.9979999	2049	8.9834473	2049	1.0296357	0	8
52	30	9.0130999	2046	9.9979999	2046	8.9834489	2046	1.0299351	0	8
53	0	9.0137999	2044	9.9979999	2044	8.9834505	2044	1.0302345	0	7
53	30	9.0144999	2040	9.9979999	2040	8.9834521	2040	1.0305339	0	7
54	0	9.0151999	2037	9.9979999	2037	8.9834537	2037	1.0308333	0	6
54	30	9.0158999	2034	9.9979999	2034	8.9834553	2034	1.0311327	0	6
55	0	9.0165999	2032	9.9979999	2032	8.9834569	2032	1.0314321	0	5
55	30	9.0172999	2028	9.9979999	2028	8.9834585	2028	1.0317315	0	5
56	0	9.0179999	2026	9.9979999	2026	8.9834601	2026	1.0320309	0	4
56	30	9.0186999	2022	9.9979999	2022	8.9834617	2022	1.0323303	0	4
57	0	9.0193999	2019	9.9979999	2019	8.9834633	2019	1.0326297	0	3
57	30	9.0200999	2017	9.9979999	2017	8.9834649	2017	1.0329291	0	3
58	0	9.0207999	2014	9.9979999	2014	8.9834665	2014	1.0332285	0	2
58	30	9.0214999	2012	9.9979999	2012	8.9834681	2012	1.0335279	0	2
59	0	9.0221999	2009	9.9979999	2009	8.9834697	2009	1.0338273	0	1
59	30	9.0228999	2005	9.9979999	2005	8.9834713	2005	1.0341267	0	1
60	0	9.0235999	2003	9.9979999	2003	8.9834729	2003	1.0344261	0	0
60	30	9.0242999	2000	9.9979999	2000	8.9834745	2000	1.0347255	0	0
1	"	l. cosin.	diff.	l. sin.	d.	l. cotan.	diff.	l. tang.	"	1
			10'		10'		10'			

64 deg.

6 deg.

/	//	l. sin.	diff. 10''	l. cosin.	d. 10''	l. tang.	diff. 10''	l. cotan.	/
0	0	9.0192346	2002	9.9976143	22	9.0160028	2005	0.9783798	0
0	30	9.0193351	2000	9.9976077	22	9.0160874	2002	0.9777726	30
1	0	9.0204348	1998	9.9976011	22	9.0161838	2001	0.9771658	0
1	30	9.0210337	1995	9.9975944	22	9.0162833	2001	0.9765607	30
2	0	9.0216318	1992	9.9975877	22	9.0163841	2001	0.9759569	0
2	30	9.0222290	1989	9.9975810	22	9.0164860	2001	0.9753520	30
3	0	9.0228254	1986	9.9975743	22	9.0165891	2000	0.9747490	0
3	30	9.0234210	1983	9.9975676	22	9.0166933	2000	0.9741467	30
4	0	9.0240157	1981	9.9975609	22	9.0167986	2000	0.9735458	0
4	30	9.0246096	1978	9.9975542	22	9.0169054	2000	0.9729466	30
5	0	9.0252027	1975	9.9975475	22	9.0170132	1998	0.9723488	0
5	30	9.0257950	1972	9.9975408	22	9.0171224	1998	0.9717528	30
6	0	9.0263866	1969	9.9975340	22	9.0172324	1998	0.9711586	0
6	30	9.0269777	1967	9.9975273	22	9.0173434	1998	0.9705662	30
7	0	9.0275689	1965	9.9975205	22	9.0174554	1997	0.9699756	0
7	30	9.0281590	1961	9.9975137	22	9.0175682	1998	0.9693878	30
8	0	9.0287492	1959	9.9975069	22	9.0176819	1998	0.9688027	0
8	30	9.0293391	1956	9.9975001	22	9.0177964	1999	0.9682195	30
9	0	9.0299282	1954	9.9974933	22	9.0179116	1999	0.9676381	0
9	30	9.0305180	1951	9.9974865	22	9.0180274	1999	0.9670585	30
10	0	9.0311080	1949	9.9974797	22	9.0181438	1999	0.9664807	0
10	30	9.0316973	1945	9.9974729	22	9.0182608	1998	0.9659046	30
11	0	9.0322867	1943	9.9974660	22	9.0183784	1998	0.9653302	0
11	30	9.0328753	1941	9.9974592	22	9.0184966	1998	0.9647574	30
12	0	9.0334642	1937	9.9974523	22	9.0186154	1998	0.9641862	0
12	30	9.0340522	1935	9.9974455	22	9.0187346	1998	0.9636166	30
13	0	9.0346405	1932	9.9974386	22	9.0188542	1998	0.9630486	0
13	30	9.0352280	1930	9.9974317	22	9.0189742	1998	0.9624822	30
14	0	9.0358157	1927	9.9974248	22	9.0190946	1998	0.9619174	0
14	30	9.0364036	1925	9.9974179	22	9.0192154	1998	0.9613542	30
15	0	9.0369908	1922	9.9974110	22	9.0193366	1945	0.9607926	0
15	30	9.0375781	1920	9.9974041	22	9.0194582	1945	0.9602326	30
16	0	9.0381647	1917	9.9973971	22	9.0195802	1944	0.9596742	0
16	30	9.0387506	1914	9.9973902	22	9.0197026	1944	0.9591174	30
17	0	9.0393359	1912	9.9973833	22	9.0198254	1943	0.9585622	0
17	30	9.0399217	1909	9.9973763	22	9.0199486	1943	0.9580086	30
18	0	9.0405064	1907	9.9973693	22	9.0200722	1943	0.9574566	0
18	30	9.0410912	1904	9.9973623	22	9.0201962	1943	0.9569062	30
19	0	9.0416752	1902	9.9973554	22	9.0203206	1943	0.9563574	0
19	30	9.0422595	1899	9.9973484	22	9.0204454	1943	0.9558102	30
20	0	9.0428439	1897	9.9973414	22	9.0205706	1943	0.9552646	0
20	30	9.0434283	1894	9.9973344	22	9.0206962	1943	0.9547206	30
21	0	9.0440127	1891	9.9973273	22	9.0208222	1943	0.9541782	0
21	30	9.0445970	1889	9.9973203	22	9.0209486	1943	0.9536374	30
22	0	9.0451814	1886	9.9973132	22	9.0210754	1943	0.9530982	0
22	30	9.0457657	1884	9.9973062	22	9.0212026	1943	0.9525606	30
23	0	9.0463501	1882	9.9972991	22	9.0213302	1943	0.9520246	0
23	30	9.0469344	1880	9.9972921	22	9.0214582	1943	0.9514902	30
24	0	9.0475188	1877	9.9972850	22	9.0215866	1943	0.9509574	0
24	30	9.0481031	1874	9.9972779	22	9.0217154	1943	0.9504262	30
25	0	9.0486875	1872	9.9972708	22	9.0218446	1943	0.9498966	0
25	30	9.0492718	1870	9.9972637	22	9.0219742	1943	0.9493686	30
26	0	9.0498562	1867	9.9972566	22	9.0221042	1943	0.9488422	0
26	30	9.0504405	1865	9.9972494	22	9.0222346	1943	0.9483174	30
27	0	9.0510249	1862	9.9972423	22	9.0223654	1943	0.9477942	0
27	30	9.0516092	1859	9.9972351	22	9.0224966	1943	0.9472726	30
28	0	9.0521936	1857	9.9972280	22	9.0226282	1943	0.9467526	0
28	30	9.0527779	1855	9.9972208	22	9.0227602	1943	0.9462342	30
29	0	9.0533623	1853	9.9972137	22	9.0228926	1943	0.9457174	0
29	30	9.0539466	1850	9.9972065	22	9.0230254	1943	0.9452022	30
30	0	9.0545310	1848	9.9971993	22	9.0231586	1943	0.9446886	0
30	30	9.0551153	1846	9.9971921	22	9.0232922	1943	0.9441766	30

93 deg.

/	"	L. sin.	diff.	L. cosin.	d.	L. tang.	diff.	L. cotan.	"	/
—	—	10"	10"	10"	10"	10"	10"	10"	—	—
30	0	9.658888	1847	9.9971993	24	9.0666656	1871	0.9433406	0	30
30	30	9.6544128	1845	9.9971921	24	9.0672007	1869	0.9447733	0	30
31	0	9.6546681	1843	9.9971849	24	9.0677813	1865	0.9462187	0	29
30	30	9.6502187	1841	9.9971776	24	9.0683411	1864	0.9466589	0	29
32	0	9.650706	1838	9.9971704	24	9.0689002	1862	0.9441098	0	28
30	30	9.656218	1836	9.9971632	24	9.0694586	1860	0.9405414	0	27
33	0	9.6571723	1833	9.9971560	24	9.0699164	1857	0.9399836	0	27
30	30	9.6577221	1831	9.9971487	24	9.0699734	1855	0.9394266	0	26
34	0	9.6582711	1829	9.9971414	24	9.0611277	1853	0.9388703	0	26
30	30	9.6588195	1827	9.9971341	24	9.0616854	1850	0.9383146	0	25
35	0	9.6593672	1824	9.9971268	24	9.0622430	1849	0.9377597	0	25
30	30	9.6599142	1821	9.9971196	24	9.0627946	1846	0.9372054	0	24
36	0	9.6604604	1820	9.9971122	24	9.0633482	1843	0.9366518	0	24
30	30	9.6610060	1817	9.9971049	24	9.0639011	1841	0.9360989	0	23
37	0	9.6615509	1815	9.9970976	24	9.0644533	1839	0.9355467	0	23
30	30	9.6620951	1812	9.9970903	25	9.0650048	1837	0.9349952	0	22
38	0	9.6626386	1810	9.9970829	24	9.0655565	1835	0.9344444	0	22
30	30	9.6631814	1808	9.9970756	25	9.0661083	1832	0.9338942	0	21
39	0	9.6637235	1806	9.9970682	24	9.0666603	1830	0.9333447	0	21
30	30	9.6642650	1803	9.9970609	25	9.0672121	1828	0.9327959	0	20
40	0	9.6648057	1801	9.9970535	25	9.0677622	1826	0.9322478	0	20
30	30	9.6653458	1799	9.9970461	25	9.0683127	1823	0.9317003	0	19
41	0	9.6658852	1796	9.9970387	25	9.0688635	1821	0.9311535	0	19
30	30	9.6664239	1794	9.9970313	25	9.0694136	1819	0.9306074	0	18
42	0	9.6669619	1792	9.9970239	25	9.0699631	1816	0.9300619	0	18
30	30	9.6674993	1790	9.9970165	25	9.0705122	1814	0.9295171	0	17
43	0	9.6680360	1787	9.9970090	25	9.0710610	1812	0.9289730	0	17
30	30	9.6685720	1785	9.9970016	25	9.0716094	1811	0.9284296	0	16
44	0	9.6691074	1783	9.9969941	25	9.0721573	1807	0.9278867	0	16
30	30	9.6696421	1780	9.9969867	25	9.0727054	1806	0.9273446	0	15
45	0	9.6701751	1778	9.9969792	25	9.0732535	1803	0.9268031	0	15
30	30	9.6707094	1777	9.9969717	25	9.0737977	1801	0.9262623	0	14
46	0	9.6712421	1774	9.9969642	25	9.0743419	1799	0.9257221	0	14
30	30	9.6717741	1772	9.9969567	25	9.0748874	1797	0.9251826	0	13
47	0	9.6723055	1770	9.9969492	25	9.0754332	1795	0.9246437	0	13
30	30	9.6728358	1768	9.9969417	25	9.0759795	1793	0.9241055	0	12
48	0	9.6733653	1765	9.9969342	25	9.0765260	1790	0.9235679	0	12
30	30	9.6738947	1763	9.9969267	25	9.0770729	1788	0.9230310	0	11
49	0	9.6744244	1761	9.9969191	25	9.0776203	1786	0.9224947	0	11
30	30	9.6749525	1759	9.9969115	25	9.0781680	1784	0.9219590	0	10
50	0	9.6754799	1757	9.9969040	25	9.0787160	1782	0.9214240	0	10
30	30	9.6760067	1755	9.9968964	25	9.0792641	1780	0.9208897	0	9
51	0	9.6765329	1752	9.9968888	25	9.0798124	1777	0.9203560	0	9
30	30	9.6770584	1750	9.9968812	25	9.0803606	1775	0.9198229	0	8
52	0	9.6775832	1748	9.9968736	25	9.0809090	1773	0.9192904	0	8
30	30	9.6781074	1746	9.9968660	25	9.0814574	1771	0.9187586	0	7
53	0	9.6786310	1744	9.9968584	25	9.0819958	1769	0.9182274	0	7
30	30	9.6791539	1742	9.9968507	25	9.0825343	1767	0.9176968	0	6
54	0	9.6796762	1740	9.9968431	25	9.0830728	1765	0.9171669	0	6
30	30	9.6801979	1737	9.9968355	25	9.0836113	1763	0.9166376	0	5
55	0	9.6807189	1736	9.9968278	25	9.0841498	1761	0.9161089	0	5
30	30	9.6812393	1733	9.9968201	25	9.0846883	1759	0.9155800	0	4
56	0	9.6817590	1731	9.9968125	25	9.0852268	1757	0.9150534	0	4
30	30	9.6822781	1729	9.9968048	25	9.0857653	1755	0.9145266	0	3
57	0	9.6827966	1727	9.9967971	25	9.0863038	1752	0.9140004	0	3
30	30	9.6833145	1725	9.9967894	25	9.0868423	1751	0.9134749	0	2
58	0	9.6838317	1723	9.9967817	25	9.0873808	1748	0.9129490	0	2
30	30	9.6843484	1720	9.9967739	25	9.0879193	1747	0.9124231	0	1
59	0	9.6848643	1719	9.9967662	25	9.0884578	1745	0.9118971	0	1
30	30	9.6853797	1717	9.9967585	25	9.0889963	1742	0.9113712	0	0
60	0	9.6858945	1715	9.9967507	25	9.0895348	1740	0.9108452	0	0
—	—	10"	10"	10"	10"	10"	10"	10"	—	—
/	"	L. cosin.	diff.	L. sin.	d.	L. cotan.	diff.	L. tang.	"	/

8 deg.

°	'	l. sin.	dif.	l. cosin.	d.	l. tang.	dif.	l. cotan.	°	'
—	—	10'	10'	10'	10'	10'	10'	10'	—	—
0	0	9.1436563	1498	9.9997628	30	9.1478005	1508	0.8521975	0	60
0	30	9.1440045	1496	9.9997439	30	9.1482006	1506	0.8517534	0	30
1	0	9.1444452	1495	9.9997350	30	9.1487182	1505	0.8513818	0	59
1	30	9.1448915	1493	9.9997261	30	9.1491754	1503	0.8509845	0	30
2	0	9.1453493	1492	9.9997172	30	9.1496321	1501	0.8505679	0	58
2	30	9.1457966	1490	9.9997083	30	9.1500884	1519	0.8499116	0	30
3	0	9.1462435	1488	9.9996993	30	9.1505441	1519	0.8494559	0	57
3	30	9.1466899	1487	9.9996904	30	9.1509993	1516	0.8490005	0	30
4	0	9.1471368	1486	9.9996815	30	9.1514543	1515	0.8485457	0	56
4	30	9.1475818	1484	9.9996726	30	9.1519087	1514	0.8480913	0	30
5	0	9.1480286	1482	9.9996636	30	9.1523627	1512	0.8476373	0	55
5	30	9.1484777	1481	9.9996546	30	9.1528169	1510	0.8471838	0	30
6	0	9.1489248	1479	9.9996456	30	9.1532721	1509	0.8467308	0	54
6	30	9.1493684	1477	9.9996366	30	9.1537271	1508	0.8462782	0	30
7	0	9.1498115	1476	9.9996276	30	9.1541819	1507	0.8458261	0	53
7	30	9.1502542	1474	9.9996186	30	9.1546366	1506	0.8453744	0	30
8	0	9.1506964	1473	9.9996095	30	9.1550909	1503	0.8449231	0	52
8	30	9.1511381	1472	9.9996005	30	9.1555450	1502	0.8444724	0	30
9	0	9.1515794	1470	9.9995914	30	9.1559989	1500	0.8440220	0	51
9	30	9.1520203	1468	9.9995824	30	9.1564527	1498	0.8435721	0	30
10	0	9.1524607	1467	9.9995734	30	9.1569063	1497	0.8431227	0	50
10	30	9.1529006	1465	9.9995643	30	9.1573593	1496	0.8426737	0	30
11	0	9.1533391	1463	9.9995552	30	9.1578118	1495	0.8422250	0	49
11	30	9.1537761	1462	9.9995461	30	9.1582638	1494	0.8417770	0	30
12	0	9.1542126	1460	9.9995370	30	9.1587156	1491	0.8413294	0	48
12	30	9.1546487	1460	9.9995279	30	9.1591671	1490	0.8408824	0	30
13	0	9.1550834	1458	9.9995188	30	9.1596182	1488	0.8404354	0	47
13	30	9.1555176	1457	9.9995097	30	9.1600689	1486	0.8399880	0	30
14	0	9.1559514	1455	9.9995006	30	9.1605193	1485	0.8395411	0	46
14	30	9.1563847	1453	9.9994914	30	9.1609693	1484	0.8390947	0	30
15	0	9.1568176	1452	9.9994822	30	9.1614193	1483	0.8386487	0	45
15	30	9.1572500	1450	9.9994731	30	9.1618689	1481	0.8382031	0	30
16	0	9.1576820	1449	9.9994639	30	9.1623181	1479	0.8377579	0	44
16	30	9.1581135	1447	9.9994547	30	9.1627669	1478	0.8373130	0	30
17	0	9.1585446	1446	9.9994455	30	9.1632153	1476	0.8368685	0	43
17	30	9.1589752	1445	9.9994363	30	9.1636635	1475	0.8364241	0	30
18	0	9.1594054	1443	9.9994271	30	9.1641113	1474	0.8359797	0	42
18	30	9.1598352	1442	9.9994179	30	9.1645589	1472	0.8355354	0	30
19	0	9.1602646	1440	9.9994087	30	9.1649961	1471	0.8350911	0	41
19	30	9.1606934	1439	9.9993994	30	9.1654330	1469	0.8346469	0	30
20	0	9.1611219	1437	9.9993902	30	9.1658697	1468	0.8342027	0	40
20	30	9.1615499	1436	9.9993809	30	9.1663061	1467	0.8337586	0	30
21	0	9.1619764	1435	9.9993717	30	9.1667422	1465	0.8333146	0	39
21	30	9.1624024	1433	9.9993624	30	9.1671781	1464	0.8328706	0	30
22	0	9.1628283	1431	9.9993531	30	9.1676138	1462	0.8324267	0	38
22	30	9.1632531	1429	9.9993438	30	9.1680493	1460	0.8319829	0	30
23	0	9.1636774	1428	9.9993345	30	9.1684846	1459	0.8315391	0	37
23	30	9.1641018	1427	9.9993252	30	9.1689197	1458	0.8310954	0	30
24	0	9.1645258	1425	9.9993159	30	9.1693546	1457	0.8306516	0	36
24	30	9.1649493	1424	9.9993065	30	9.1697893	1455	0.8302079	0	30
25	0	9.1653724	1423	9.9992972	30	9.1702237	1454	0.8297642	0	35
25	30	9.1657951	1421	9.9992878	30	9.1706578	1452	0.8293207	0	30
26	0	9.1662174	1419	9.9992785	30	9.1710917	1451	0.8288771	0	34
26	30	9.1666393	1418	9.9992691	30	9.1715254	1449	0.8284336	0	30
27	0	9.1670608	1417	9.9992597	30	9.1719589	1448	0.8279899	0	33
27	30	9.1674818	1415	9.9992503	30	9.1723922	1447	0.8275468	0	30
28	0	9.1679024	1414	9.9992409	30	9.1728253	1445	0.8271038	0	32
28	30	9.1683226	1413	9.9992315	30	9.1732582	1444	0.8266607	0	30
29	0	9.1687424	1412	9.9992221	30	9.1736909	1443	0.8262176	0	31
29	30	9.1691618	1410	9.9992127	30	9.1741234	1442	0.8257745	0	30
30	0	9.1695808	1409	9.9992033	30	9.1745558	1441	0.8253314	0	30
—	—	10'	10'	10'	10'	10'	10'	10'	—	—
°	'	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	°	'

81 deg.
18

8 deg.

1	2	L. sin.	diff.	L. cosin.	d.	L. tang.	diff.	L. cotan.	1	2
10"					10"				10"	
30	0	9.1677081	1408	9.9959233	31	9.1744988	1440	0.8255018	0	30
30	30	9.1701265	1407	9.9959138	32	9.1749307	1439	0.8255093	0	30
30	0	9.1705465	1406	9.9959044	33	9.1753626	1437	0.8255168	0	29
30	0	9.1709680	1404	9.9958949	34	9.1757933	1436	0.8255243	0	29
30	0	9.1713893	1403	9.9958854	35	9.1762239	1435	0.8255318	0	28
30	30	9.1718101	1402	9.9958759	36	9.1766546	1433	0.8255393	0	28
30	0	9.1722305	1400	9.9958664	37	9.1770840	1432	0.8255468	0	27
30	30	9.1726504	1399	9.9958569	38	9.1775134	1431	0.8255543	0	27
30	0	9.1730699	1398	9.9958474	39	9.1779428	1430	0.8255618	0	26
30	30	9.1734890	1396	9.9958379	40	9.1783711	1428	0.8255693	0	26
30	0	9.1739077	1395	9.9958284	41	9.1787995	1427	0.8255768	0	25
30	30	9.1743265	1393	9.9958188	42	9.1792277	1426	0.8255843	0	25
30	0	9.1747439	1392	9.9958093	43	9.1796564	1425	0.8255918	0	24
30	30	9.1751613	1391	9.9957997	44	9.1800846	1423	0.8255993	0	24
30	0	9.1755784	1389	9.9957902	45	9.1805128	1422	0.8256068	0	23
30	30	9.1759950	1388	9.9957806	46	9.1809404	1421	0.8256143	0	23
30	0	9.1764112	1387	9.9957711	47	9.1813680	1419	0.8256218	0	22
30	30	9.1768277	1386	9.9957614	48	9.1817956	1418	0.8256293	0	22
30	0	9.1772445	1385	9.9957518	49	9.1822232	1417	0.8256368	0	21
30	30	9.1776616	1384	9.9957422	50	9.1826508	1416	0.8256443	0	21
40	0	9.1780781	1381	9.9957326	51	9.1830784	1415	0.8256518	0	20
40	30	9.1784943	1380	9.9957230	52	9.1835060	1413	0.8256593	0	20
40	0	9.1789101	1378	9.9957134	53	9.1839336	1411	0.8256668	0	19
40	30	9.1793265	1377	9.9957038	54	9.1843612	1410	0.8256743	0	19
40	0	9.1797425	1376	9.9956942	55	9.1847888	1408	0.8256818	0	18
40	30	9.1801590	1375	9.9956846	56	9.1852164	1407	0.8256893	0	18
40	0	9.1805751	1373	9.9956750	57	9.1856440	1405	0.8256968	0	17
40	30	9.1809913	1372	9.9956654	58	9.1860716	1404	0.8257043	0	17
40	0	9.1814074	1370	9.9956558	59	9.1864992	1403	0.8257118	0	16
40	30	9.1818234	1369	9.9956462	60	9.1869268	1402	0.8257193	0	16
45	0	9.1821960	1368	9.9956366	61	9.1873544	1400	0.8257268	0	15
45	30	9.1826096	1366	9.9956270	62	9.1877820	1399	0.8257343	0	15
45	0	9.1830234	1365	9.9956174	63	9.1882096	1397	0.8257418	0	14
45	30	9.1834369	1364	9.9956078	64	9.1886372	1396	0.8257493	0	14
45	0	9.1838504	1363	9.9955982	65	9.1890648	1395	0.8257568	0	13
45	30	9.1842639	1361	9.9955886	66	9.1894924	1394	0.8257643	0	13
45	0	9.1846774	1360	9.9955790	67	9.1899200	1392	0.8257718	0	12
45	30	9.1850909	1359	9.9955694	68	9.1903476	1391	0.8257793	0	12
45	0	9.1855044	1357	9.9955598	69	9.1907752	1390	0.8257868	0	11
45	30	9.1859179	1356	9.9955502	70	9.1912028	1389	0.8257943	0	11
50	0	9.1863308	1355	9.9955406	71	9.1916304	1387	0.8258018	0	10
50	30	9.1867437	1353	9.9955310	72	9.1920580	1387	0.8258093	0	10
50	0	9.1871566	1352	9.9955214	73	9.1924856	1384	0.8258168	0	9
50	30	9.1875695	1351	9.9955118	74	9.1929132	1383	0.8258243	0	9
50	0	9.1879824	1350	9.9955022	75	9.1933408	1383	0.8258318	0	8
50	30	9.1883953	1349	9.9954926	76	9.1937684	1381	0.8258393	0	8
50	0	9.1888082	1347	9.9954830	77	9.1941960	1380	0.8258468	0	7
50	30	9.1892211	1346	9.9954734	78	9.1946236	1379	0.8258543	0	7
50	0	9.1896340	1344	9.9954638	79	9.1950512	1377	0.8258618	0	6
50	30	9.1899969	1343	9.9954542	80	9.1954788	1376	0.8258693	0	6
55	0	9.1903594	1342	9.9954446	81	9.1959064	1375	0.8258768	0	5
55	30	9.1907723	1341	9.9954350	82	9.1963340	1373	0.8258843	0	5
55	0	9.1911852	1339	9.9954254	83	9.1967616	1372	0.8258918	0	4
55	30	9.1915981	1338	9.9954158	84	9.1971892	1371	0.8258993	0	4
55	0	9.1920110	1337	9.9954062	85	9.1976168	1370	0.8259068	0	3
55	30	9.1924239	1336	9.9953966	86	9.1980444	1369	0.8259143	0	3
55	0	9.1928368	1334	9.9953870	87	9.1984720	1368	0.8259218	0	2
55	30	9.1932497	1333	9.9953774	88	9.1988996	1366	0.8259293	0	2
55	0	9.1936626	1332	9.9953678	89	9.1993272	1365	0.8259368	0	1
55	30	9.1940755	1331	9.9953582	90	9.1997548	1364	0.8259443	0	1
60	0	9.1944884	1329	9.9953486	91	9.2001824	1363	0.8259518	0	0
60	30	9.1949013	1328	9.9953390	92	9.2006100	1362	0.8259593	0	0
60	0	9.1953142	1327	9.9953294	93	9.2010376	1361	0.8259668	0	0
60	30	9.1957271	1326	9.9953198	94	9.2014652	1360	0.8259743	0	0
60	0	9.1961400	1325	9.9953102	95	9.2018928	1359	0.8259818	0	0
60	30	9.1965529	1324	9.9953006	96	9.2023204	1358	0.8259893	0	0
60	0	9.1969658	1323	9.9952910	97	9.2027480	1357	0.8259968	0	0
60	30	9.1973787	1322	9.9952814	98	9.2031756	1356	0.8260043	0	0
60	0	9.1977916	1321	9.9952718	99	9.2036032	1355	0.8260118	0	0
60	30	9.1982045	1320	9.9952622	100	9.2040308	1354	0.8260193	0	0

81 deg.

9 deg.

°	'	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	'	°
30	0	9.2176092	1258	9.9940027	35	9.2236065	1294	0.7763355	0	30
30	30	9.2176885	1257	9.9939991	35	9.2236944	1292	0.7763366	30	29
31	0	9.2183636	1256	9.9939815	35	9.2243819	1290	0.7768181	0	29
31	30	9.2187101	1255	9.9939709	35	9.2247692	1288	0.7768208	30	28
32	0	9.2191164	1253	9.9939503	35	9.2251561	1286	0.7774839	0	28
32	30	9.2194923	1253	9.9939477	35	9.2255426	1285	0.7774874	30	27
33	0	9.2198680	1251	9.9939391	35	9.2259288	1285	0.7774911	0	27
33	30	9.2202434	1251	9.9939285	35	9.2263148	1284	0.7774952	30	26
34	0	9.2206182	1249	9.9939178	35	9.2267004	1284	0.7774995	0	26
34	30	9.2209928	1248	9.9939072	35	9.2270856	1284	0.7774944	30	25
35	0	9.2213671	1247	9.9938965	35	9.2274705	1282	0.7775024	0	25
35	30	9.2217410	1246	9.9938858	35	9.2278552	1281	0.7775111	30	24
36	0	9.2221147	1244	9.9938752	35	9.2282395	1280	0.7775165	0	24
36	30	9.2224880	1243	9.9938645	35	9.2286235	1279	0.7775265	30	23
37	0	9.2228609	1243	9.9938538	35	9.2290071	1279	0.7775365	0	23
37	30	9.2232336	1241	9.9938431	35	9.2293905	1277	0.7775465	30	22
38	0	9.2236065	1240	9.9938324	35	9.2297735	1276	0.7775564	0	22
38	30	9.2239778	1240	9.9938216	35	9.2301562	1275	0.7775664	30	21
39	0	9.2243495	1238	9.9938109	35	9.2305386	1274	0.7775763	0	21
39	30	9.2247208	1237	9.9938002	35	9.2309207	1272	0.7775862	30	20
40	0	9.2250918	1236	9.9937894	35	9.2313024	1272	0.7775961	0	20
40	30	9.2254625	1235	9.9937786	35	9.2316838	1271	0.7776060	30	19
41	0	9.2258328	1234	9.9937679	35	9.2320650	1269	0.7776159	0	19
41	30	9.2262028	1233	9.9937571	35	9.2324468	1268	0.7776258	30	18
42	0	9.2265725	1232	9.9937463	35	9.2328282	1267	0.7776357	0	18
42	30	9.2269419	1231	9.9937355	35	9.2332094	1266	0.7776456	30	17
43	0	9.2273110	1229	9.9937247	35	9.2335903	1265	0.7776555	0	17
43	30	9.2276797	1228	9.9937139	35	9.2339708	1264	0.7776654	30	16
44	0	9.2280481	1227	9.9937030	35	9.2343511	1262	0.7776753	0	16
44	30	9.2284162	1226	9.9936922	35	9.2347314	1262	0.7776852	30	15
45	0	9.2287839	1225	9.9936813	35	9.2351126	1261	0.7776951	0	15
45	30	9.2291514	1224	9.9936705	35	9.2354938	1260	0.7777050	30	14
46	0	9.2295185	1223	9.9936596	35	9.2358749	1259	0.7777149	0	14
46	30	9.2298853	1222	9.9936487	35	9.2362558	1258	0.7777248	30	13
47	0	9.2302518	1221	9.9936378	35	9.2366366	1257	0.7777347	0	13
47	30	9.2306179	1220	9.9936269	35	9.2370171	1256	0.7777446	30	12
48	0	9.2309838	1219	9.9936160	35	9.2373974	1255	0.7777545	0	12
48	30	9.2313493	1218	9.9936051	35	9.2377774	1254	0.7777644	30	11
49	0	9.2317145	1217	9.9935942	35	9.2381573	1253	0.7777743	0	11
49	30	9.2320794	1216	9.9935833	35	9.2385372	1252	0.7777842	30	10
50	0	9.2324440	1215	9.9935723	35	9.2389171	1251	0.7777941	0	10
50	30	9.2328083	1213	9.9935614	35	9.2392968	1250	0.7778040	30	9
51	0	9.2331722	1213	9.9935504	35	9.2396764	1249	0.7778139	0	9
51	30	9.2335359	1211	9.9935394	35	9.2400558	1247	0.7778238	30	8
52	0	9.2338992	1210	9.9935285	35	9.2404352	1246	0.7778337	0	8
52	30	9.2342622	1210	9.9935175	35	9.2408148	1245	0.7778436	30	7
53	0	9.2346249	1209	9.9935066	35	9.2411941	1244	0.7778535	0	7
53	30	9.2349873	1207	9.9934956	35	9.2415735	1243	0.7778634	30	6
54	0	9.2353494	1205	9.9934844	35	9.2419528	1242	0.7778733	0	6
54	30	9.2357112	1205	9.9934734	35	9.2423321	1242	0.7778832	30	5
55	0	9.2360726	1204	9.9934624	35	9.2427113	1240	0.7778931	0	5
55	30	9.2364338	1203	9.9934513	35	9.2430904	1240	0.7779030	30	4
56	0	9.2367946	1202	9.9934403	35	9.2434695	1239	0.7779129	0	4
56	30	9.2371551	1201	9.9934292	35	9.2438485	1238	0.7779228	30	3
57	0	9.2375153	1201	9.9934181	35	9.2442274	1237	0.7779327	0	3
57	30	9.2378753	1199	9.9934070	35	9.2446062	1236	0.7779426	30	2
58	0	9.2382349	1198	9.9933959	35	9.2449850	1235	0.7779525	0	2
58	30	9.2385942	1197	9.9933848	35	9.2453637	1234	0.7779624	30	1
59	0	9.2389532	1196	9.9933737	35	9.2457424	1233	0.7779723	0	1
59	30	9.2393118	1195	9.9933626	35	9.2461210	1232	0.7779822	30	0
60	0	9.2396702	10"	9.9933515	10"	9.2465000	10"	0.7779921	0	0
60	30									
61	0	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	'	°

80 deg.

10 deg.

l.	"	l. sin.	diff.	l. cosin.	d.	l. tang.	diff.	l. cotan.	"	l.
—	—	10"	10"	10"	10"	10"	10"	10"	—	—
30	o	9.2866330	1136	9.9986661	39	9.2879669	1176	0.7320331	o	30
30	30	9.2867377	1136	9.9986644	39	9.2883193	1174	0.7316807	30	o
31	o	9.2868411	1134	9.9986627	39	9.2886714	1173	0.7313285	30	29
31	30	9.2869444	1133	9.9986610	39	9.2890235	1172	0.7309767	30	o
32	o	9.2870478	1132	9.9986593	40	9.2893749	1171	0.7306251	30	28
32	30	9.2871511	1131	9.9986576	40	9.2897262	1170	0.7302738	30	o
33	o	9.2872545	1131	9.9986559	40	9.2900772	1170	0.7299228	30	27
33	30	9.2873578	1131	9.9986542	40	9.2904280	1169	0.7295720	30	o
34	o	9.2874612	1130	9.9986525	40	9.2907786	1167	0.7292214	30	26
34	30	9.2875645	1129	9.9986508	40	9.2911288	1167	0.7288712	30	o
35	o	9.2876679	1127	9.9986491	40	9.2914788	1166	0.7285212	30	25
35	30	9.2877712	1126	9.9986474	40	9.2918286	1165	0.7281714	30	o
36	o	9.2878746	1125	9.9986457	40	9.2921780	1165	0.7278220	30	24
36	30	9.2879779	1124	9.9986440	40	9.2925272	1164	0.7274728	30	o
37	o	9.2880813	1123	9.9986423	40	9.2928768	1162	0.7271238	30	23
37	30	9.2881846	1122	9.9986406	39	9.2932249	1162	0.7267751	30	o
38	o	9.2882880	1121	9.9986389	40	9.2935733	1161	0.7264267	30	22
38	30	9.2883913	1120	9.9986372	39	9.2939215	1160	0.7260785	30	o
39	o	9.2884947	1120	9.9986355	40	9.2942694	1159	0.7257300	30	21
39	30	9.2885980	1119	9.9986338	40	9.2946170	1159	0.7253830	30	o
40	o	9.2887014	1118	9.9986321	40	9.2949644	1158	0.7250356	30	20
40	30	9.2888047	1117	9.9986304	40	9.2953116	1158	0.7246884	30	o
41	o	9.2889081	1116	9.9986287	40	9.2956584	1155	0.7243416	30	19
41	30	9.2890114	1115	9.9986270	39	9.2960050	1155	0.7239950	30	o
42	o	9.2891148	1114	9.9986253	40	9.2963514	1154	0.7236486	30	18
42	30	9.2892181	1113	9.9986236	40	9.2966977	1153	0.7233025	30	o
43	o	9.2893215	1112	9.9986219	40	9.2970434	1152	0.7229566	30	17
43	30	9.2894248	1112	9.9986202	40	9.2973889	1152	0.7226111	30	o
44	o	9.2895282	1110	9.9986185	40	9.2977343	1150	0.7222657	30	16
44	30	9.2896315	1109	9.9986168	40	9.2980793	1150	0.7219207	30	o
45	o	9.2897348	1109	9.9986151	40	9.2984244	1149	0.7215758	30	15
45	30	9.2898381	1108	9.9986134	40	9.2987697	1148	0.7212313	30	o
46	o	9.2899415	1107	9.9986117	40	9.2991151	1147	0.7208869	30	14
46	30	9.2900448	1106	9.9986100	40	9.2994604	1146	0.7205429	30	o
47	o	9.2901482	1105	9.9986083	41	9.2998057	1144	0.7201991	30	13
47	30	9.2902515	1105	9.9986066	41	9.3001511	1144	0.7198555	30	o
48	o	9.2903548	1104	9.9986049	41	9.3004964	1144	0.7195122	30	12
48	30	9.2904581	1103	9.9986032	41	9.3008418	1144	0.7191692	30	o
49	o	9.2905615	1102	9.9986015	41	9.3011871	1143	0.7188264	30	11
49	30	9.2906648	1101	9.9985998	40	9.3015325	1142	0.7184838	30	o
50	o	9.2907682	1100	9.9985981	40	9.3018778	1141	0.7181415	30	10
50	30	9.2908715	1100	9.9985964	40	9.3022232	1140	0.7177995	30	o
51	o	9.2909749	1099	9.9985947	40	9.3025685	1139	0.7174577	30	9
51	30	9.2910782	1099	9.9985930	40	9.3029139	1138	0.7171162	30	o
52	o	9.2911816	1097	9.9985913	40	9.3032592	1137	0.7167749	30	8
52	30	9.2912849	1097	9.9985896	41	9.3036046	1136	0.7164338	30	o
53	o	9.2913883	1095	9.9985879	41	9.3039499	1135	0.7160930	30	7
53	30	9.2914916	1095	9.9985862	41	9.3042953	1135	0.7157525	30	o
54	o	9.2915950	1094	9.9985845	41	9.3046406	1134	0.7154122	30	6
54	30	9.2916983	1093	9.9985828	41	9.3049859	1133	0.7150721	30	o
55	o	9.2918017	1091	9.9985811	41	9.3053313	1132	0.7147323	30	5
55	30	9.2919050	1090	9.9985794	41	9.3056766	1131	0.7143927	30	o
56	o	9.2920084	1090	9.9985777	41	9.3060220	1130	0.7140534	30	4
56	30	9.2921117	1089	9.9985760	41	9.3063673	1130	0.7137144	30	o
57	o	9.2922151	1088	9.9985743	41	9.3067127	1128	0.7133755	30	3
57	30	9.2923184	1087	9.9985726	40	9.3070580	1128	0.7130370	30	o
58	o	9.2924218	1086	9.9985709	41	9.3074034	1127	0.7126986	30	2
58	30	9.2925251	1086	9.9985692	41	9.3077487	1126	0.7123605	30	o
59	o	9.2926285	1085	9.9985675	41	9.3080941	1125	0.7120227	30	1
59	30	9.2927318	1083	9.9985658	40	9.3084394	1125	0.7116851	30	o
60	c	9.2805988	10"	9.9919466	10"	9.2886523	10"	0.7113477	—	0
l.	"	l. sin.	diff.	l. sin.	d.	l. cotan.	diff.	l. tang.	"	l.

79 deg.

11 deg.

°	'	l. sin.	dif.	l. cosin.	d.	l. tang.	dif.	l. cotan.	°	'
30	0	9.8966583	1035	9.9911987	43	9.3084665	1078	0.6912574	0	30
	30	9.8966587	1034	9.9911799	43	9.3087888	1077	0.6911148	0	
31	0	9.9008657	1033	9.9911670	43	9.3091088	1076	0.6909821	0	30
	30	9.9008657	1032	9.9911541	43	9.3094316	1075	0.6908464	0	
32	0	9.9050763	1032	9.9911412	43	9.3097541	1075	0.6907109	0	30
	30	9.9050763	1031	9.9911283	43	9.3100764	1074	0.6905756	0	
33	0	9.9092868	1030	9.9911154	43	9.3103985	1074	0.6904401	0	30
	30	9.9092868	1030	9.9911025	43	9.3107204	1073	0.6903046	0	
34	0	9.9134973	1029	9.9910896	43	9.3110421	1072	0.6901691	0	30
	30	9.9134973	1028	9.9910767	44	9.3113635	1071	0.6900336	0	
35	0	9.9177078	1027	9.9910637	43	9.3116848	1070	0.6898981	0	30
	30	9.9177078	1026	9.9910508	44	9.3120066	1069	0.6897626	0	
36	0	9.9219183	1025	9.9910378	43	9.3123286	1069	0.6896271	0	30
	30	9.9219183	1025	9.9910249	43	9.3126504	1068	0.6894916	0	
37	0	9.9261288	1024	9.9910119	44	9.3129725	1068	0.6893561	0	30
	30	9.9261288	1024	9.9909990	44	9.3132947	1066	0.6892206	0	
38	0	9.9303393	1023	9.9909860	44	9.3136169	1066	0.6890851	0	30
	30	9.9303393	1023	9.9909731	44	9.3139391	1065	0.6889496	0	
39	0	9.9345498	1022	9.9909601	44	9.3142613	1064	0.6888141	0	30
	30	9.9345498	1021	9.9909472	43	9.3145835	1063	0.6886786	0	
40	0	9.9387603	1020	9.9909342	44	9.3149057	1063	0.6885431	0	30
	30	9.9387603	1019	9.9909213	44	9.3152279	1062	0.6884076	0	
41	0	9.9429708	1018	9.9909083	44	9.3155501	1062	0.6882721	0	30
	30	9.9429708	1017	9.9908954	44	9.3158723	1061	0.6881366	0	
42	0	9.9471813	1017	9.9908824	44	9.3161945	1060	0.6880011	0	30
	30	9.9471813	1016	9.9908695	43	9.3165167	1060	0.6878656	0	
43	0	9.9513918	1016	9.9908565	43	9.3168389	1059	0.6877301	0	30
	30	9.9513918	1015	9.9908436	44	9.3171611	1059	0.6875946	0	
44	0	9.9556023	1014	9.9908306	44	9.3174833	1057	0.6874591	0	30
	30	9.9556023	1013	9.9908177	44	9.3178055	1057	0.6873236	0	
45	0	9.9598128	1012	9.9908047	44	9.3181277	1056	0.6871881	0	30
	30	9.9598128	1011	9.9907918	44	9.3184500	1055	0.6870526	0	
46	0	9.9640233	1011	9.9907788	44	9.3187722	1054	0.6869171	0	30
	30	9.9640233	1010	9.9907659	44	9.3190944	1053	0.6867816	0	
47	0	9.9682338	1009	9.9907529	44	9.3194166	1053	0.6866461	0	30
	30	9.9682338	1008	9.9907400	44	9.3197388	1052	0.6865106	0	
48	0	9.9724443	1008	9.9907270	44	9.3200610	1051	0.6863751	0	30
	30	9.9724443	1007	9.9907141	44	9.3203832	1051	0.6862396	0	
49	0	9.9766548	1006	9.9907011	44	9.3207054	1050	0.6861041	0	30
	30	9.9766548	1005	9.9906882	44	9.3210276	1049	0.6859686	0	
50	0	9.9808653	1005	9.9906752	44	9.3213500	1049	0.6858331	0	30
	30	9.9808653	1004	9.9906623	45	9.3216722	1048	0.6856976	0	
51	0	9.9850758	1004	9.9906493	44	9.3219944	1048	0.6855621	0	30
	30	9.9850758	1003	9.9906364	45	9.3223166	1047	0.6854266	0	
52	0	9.9892863	1002	9.9906234	44	9.3226388	1046	0.6852911	0	30
	30	9.9892863	1001	9.9906105	44	9.3229610	1045	0.6851556	0	
53	0	9.9934968	1000	9.9905975	44	9.3232832	1045	0.6850201	0	30
	30	9.9934968	1000	9.9905846	44	9.3236054	1044	0.6848846	0	
54	0	9.9977073	999	9.9905716	44	9.3239276	1043	0.6847491	0	30
	30	9.9977073	998	9.9905587	44	9.3242500	1043	0.6846136	0	
55	0	9.9919178	998	9.9905457	45	9.3245722	1042	0.6844781	0	30
	30	9.9919178	997	9.9905328	44	9.3248944	1041	0.6843426	0	
56	0	9.9961283	997	9.9905198	44	9.3252166	1041	0.6842071	0	30
	30	9.9961283	996	9.9905069	45	9.3255388	1040	0.6840716	0	
57	0	9.9903388	994	9.9904939	44	9.3258610	1039	0.6839361	0	30
	30	9.9903388	994	9.9904810	45	9.3261832	1038	0.6838006	0	
58	0	9.9945493	994	9.9904680	44	9.3265054	1037	0.6836651	0	30
	30	9.9945493	993	9.9904551	44	9.3268276	1037	0.6835296	0	
59	0	9.9987600	992	9.9904421	44	9.3271500	1036	0.6833941	0	30
	30	9.9987600	991	9.9904292	45	9.3274722	1035	0.6832586	0	
60	0	9.9929705	991	9.9904162	45	9.3277944	1035	0.6831231	0	30
	30	9.9929705	990	9.9904033	45	9.3281166	1034	0.6829876	0	
°	'	l. sin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	°	'

78 deg.

12 deg.

°	'	L. sin.	diff. 10"	L. cosin.	d. 10"	L. tang.	diff. 10"	L. cotan.	"	'
0	0	9. 3178789	991	9. 9994044	45	9. 3474745	1035	0. 6725255	0	60
0	30	9. 3181760	989	9. 9993910	45	9. 3477850	1035	0. 6722150	0	30
1	0	9. 3184788	989	9. 9993775	45	9. 3480955	1034	0. 6719045	0	59
1	30	9. 3187860	988	9. 9993641	45	9. 3484054	1033	0. 6715947	0	30
2	0	9. 3190959	987	9. 9993505	45	9. 3487153	1032	0. 6712847	0	58
2	30	9. 3193621	987	9. 9993371	44	9. 3490250	1032	0. 6709750	0	30
3	0	9. 3196581	986	9. 9993237	45	9. 3493345	1031	0. 6706655	0	57
3	30	9. 3199539	986	9. 9993102	45	9. 3496445	1031	0. 6703563	0	30
4	0	9. 3202495	985	9. 9992967	45	9. 3499548	1030	0. 6700474	0	56
4	30	9. 3205449	984	9. 9992832	45	9. 3502647	1029	0. 6697383	0	30
5	0	9. 3208400	984	9. 9992697	46	9. 3505749	1028	0. 6694289	0	55
5	30	9. 3211350	983	9. 9992561	46	9. 3508850	1028	0. 6691191	0	30
6	0	9. 3214297	983	9. 9992425	45	9. 3511952	1027	0. 6688108	0	54
6	30	9. 3217243	982	9. 9992289	45	9. 3515054	1027	0. 6685018	0	30
7	0	9. 3220186	981	9. 9992153	45	9. 3518153	1026	0. 6681929	0	53
7	30	9. 3223127	980	9. 9992019	45	9. 3521250	1025	0. 6678838	0	30
8	0	9. 3226065	980	9. 9991883	45	9. 3524353	1024	0. 6675747	0	52
8	30	9. 3229003	979	9. 9991748	46	9. 3527456	1024	0. 6672657	0	30
9	0	9. 3231938	978	9. 9991612	46	9. 3530559	1023	0. 6669566	0	51
9	30	9. 3234871	977	9. 9991476	46	9. 3533662	1022	0. 6666474	0	30
10	0	9. 3237802	976	9. 9991339	45	9. 3536765	1021	0. 6663377	0	50
10	30	9. 3240731	975	9. 9991203	45	9. 3539868	1021	0. 6660284	0	30
11	0	9. 3243657	975	9. 9991067	46	9. 3542971	1020	0. 6657190	0	49
11	30	9. 3246582	974	9. 9990930	45	9. 3546074	1019	0. 6654104	0	30
12	0	9. 3249505	973	9. 9990794	46	9. 3549177	1019	0. 6651019	0	48
12	30	9. 3252424	973	9. 9990657	45	9. 3552280	1018	0. 6647928	0	30
13	0	9. 3255345	972	9. 9990521	46	9. 3555383	1018	0. 6644837	0	47
13	30	9. 3258260	972	9. 9990384	46	9. 3558486	1018	0. 6641744	0	30
14	0	9. 3261174	971	9. 9990247	47	9. 3561589	1017	0. 6638651	0	46
14	30	9. 3264087	970	9. 9990110	46	9. 3564692	1016	0. 6635562	0	30
15	0	9. 3266997	969	9. 9989973	46	9. 3567795	1015	0. 6632467	0	45
15	30	9. 3269905	969	9. 9898836	46	9. 3570898	1015	0. 6629374	0	30
16	0	9. 3272811	968	9. 9898698	45	9. 3573913	1014	0. 6626287	0	44
16	30	9. 3275715	968	9. 9898561	46	9. 3576914	1014	0. 6623194	0	30
17	0	9. 3278617	967	9. 9898423	46	9. 3579919	1013			

77 deg.

13 deg.

1	#	l. sin.	diff.	l. cosin.	d.	l. tang.	diff.	l. cotan.	#	1
			10''		10''		10''			
0	e	9.340080		9.987230	48	9.343341		0.636639	0	60
	30	9.3403615	918	9.987093	48	9.343602	961	0.6363478	0	
1	0	9.3406340	918	9.986947	48	9.3438601	960	0.6360599	0	59
	30	9.3409080	910	9.986801	48	9.344117	960	0.6357721	0	
2	e	9.3411810	910	9.986655	48	9.344375	959	0.6354845	0	58
	30	9.3414538	909	9.986509	49	9.3446329	958	0.6351971	0	
3	0	9.3417264	909	9.986363	49	9.3448901	957	0.6349099	0	57
	30	9.3419988	908	9.986216	49	9.3451472	957	0.6346228	0	
4	0	9.3422710	908	9.986070	49	9.3454041	956	0.6343359	0	56
	30	9.3425431	908	9.985923	49	9.3456608	956	0.6340492	0	
	30		907		49		956			
5	0	9.3428150	906	9.985776	49	9.3459174	955	0.6337626	0	55
	30	9.3430867	906	9.985629	49	9.3461738	955	0.6334752	0	
6	0	9.3433582	905	9.985482	49	9.3464300	954	0.6331878	0	54
	30	9.3436296	904	9.985335	49	9.3466860	954	0.6329004	0	
	30	9.3439007	904	9.985188	49	9.3469419	953	0.6326131	0	53
7	0	9.3441717	904	9.985041	49	9.3471976	953	0.6323257	0	
	30	9.3444426	903	9.984894	49	9.3474532	952	0.6320384	0	52
8	0	9.3447132	902	9.984746	49	9.3477088	951	0.6317510	0	
	30	9.3449836	902	9.984599	49	9.3479643	951	0.6314636	0	51
	30	9.3452539	902	9.984451	49	9.3482198	950	0.6311762	0	
	30		901		49					
10	0	9.3455240	900	9.984303	49	9.3484753	949	0.6308888	0	50
	30	9.3457940	899	9.984156	50	9.3487308	949	0.6306014	0	
11	0	9.3460637	899	9.984008	50	9.3489862	948	0.6303140	0	49
	30	9.3463333	898	9.983860	50	9.3492417	948	0.6300266	0	
	30	9.3466027	897	9.983712	50	9.3494971	947	0.6297392	0	48
12	0	9.3468719	897	9.983563	49	9.3497525	946	0.6294518	0	
	30	9.3471409	897	9.983415	49	9.3499979	946	0.6291644	0	47
	30	9.3474098	897	9.983267	49	9.3502433	945	0.6288770	0	
14	0	9.3476785	896	9.983118	49	9.3504887	945	0.6285896	0	46
	30	9.3479470	895	9.982970	50	9.3507341	944	0.6283022	0	
	30		895		50					
15	0	9.3482154	894	9.982821	50	9.3509795	943	0.6280148	0	45
	30	9.3484836	894	9.982672	50	9.3512249	943	0.6277274	0	
16	0	9.3487515	893	9.982523	49	9.3514703	942	0.6274400	0	44
	30	9.3490193	893	9.982374	49	9.3517157	942	0.6271526	0	
	30	9.3492870	892	9.982225	50	9.3519611	941	0.6268652	0	43
17	0	9.3495544	892	9.982076	50	9.3522065	941	0.6265778	0	
	30	9.3498217	891	9.981927	50	9.3524519	940	0.6262904	0	42
	30	9.3500889	890	9.981777	49	9.3526973	940	0.6260030	0	
19	0	9.3503568	890	9.981628	50	9.3529427	940	0.6257156	0	41
	30	9.3506246	889	9.981478	50	9.3531881	938	0.6254282	0	
	30									
20	0	9.3508922	888	9.981329	50	9.3534335	938	0.6251408	0	40
	30	9.3511595	888	9.981179	50	9.3536789	938	0.6248534	0	
21	0	9.3514261	887	9.981029	50	9.3539243	937	0.6245660	0	39
	30	9.3516930	886	9.980879	50	9.3541697	936	0.6242786	0	
	30	9.3519593	886	9.980729	50	9.3544151	936	0.6239912	0	38
22	0	9.3522261	886	9.980579	50	9.3546605	936	0.6237038	0	
	30	9.3524928	885	9.980429	50	9.3549059	935	0.6234164	0	37
	30	9.3527590	885	9.980278	50	9.3551513	934	0.6231290	0	
24	0	9.3530258	884	9.980128	50	9.3553967	934	0.6228416	0	36
	30	9.3532920	883	9.979977	50	9.3556421	934	0.6225542	0	
	30									
25	0	9.3535588	882	9.979827	50	9.3558875	933	0.6222668	0	35
	30	9.3538251	882	9.979676	50	9.3561329	933	0.6219794	0	
26	0	9.3540910	881	9.979525	50	9.3563783	932	0.6216920	0	34
	30	9.3543564	881	9.979374	50	9.3566237	932	0.6214046	0	
	30	9.3546216	880	9.979223	50	9.3568691	932	0.6211172	0	33
27	0	9.3548876	880	9.979072	50	9.3571145	930	0.6208298	0	
	30	9.3551531	879	9.978921	50	9.3573599	930	0.6205424	0	32
	30	9.3554186	879	9.978770	50	9.3576053	929	0.6202550	0	
29	0	9.3556837	878	9.978618	51	9.3578507	928	0.6199676	0	31
	30	9.3559481	877	9.978467	51	9.3580961	928	0.6196802	0	
	30	9.3562125		9.978315		9.3583415		0.6193928	0	30
			10''		10''		10''			
1	#	l. cosin.	diff.	l. sin.	d.	l. cotan.	diff.	l. tang.	#	1

76 deg.

13 deg.

°	'	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	'	°
30	0	9.3681853		9.9878315	60	9.3803637	928	0.6166463	0	30
	1	9.3684483	876	9.9878163	59	9.3806319	927	0.6163681	0	29
31	0	9.3687111	876	9.9878012	58	9.3809100	926	0.6160900	0	28
	1	9.3689738	875	9.9877860	57	9.3811878	925	0.6158122	0	27
32	0	9.3692365	875	9.9877708	56	9.3814655	924	0.6155345	0	26
	1	9.3694987	874	9.9877556	55	9.3817431	923	0.6152569	0	25
33	0	9.3697608	874	9.9877404	54	9.3820205	922	0.6149792	0	24
	1	9.3700229	873	9.9877251	53	9.3822977	921	0.6147015	0	23
34	0	9.3702847	872	9.9877099	52	9.3825748	920	0.6144238	0	22
	1	9.3705464	872	9.9876946	51	9.3828517	919	0.6141461	0	21
35	0	9.3708079	871	9.9876794	50	9.3831285	918	0.6138684	0	20
	1	9.3710692	871	9.9876641	49	9.3834051	917	0.6135907	0	19
36	0	9.3713304	870	9.9876488	48	9.3836816	916	0.6133130	0	18
	1	9.3715914	869	9.9876336	47	9.3839579	915	0.6130353	0	17
37	0	9.3718523	869	9.9876183	46	9.3842340	914	0.6127576	0	16
	1	9.3721130	868	9.9876030	45	9.3845100	913	0.6124799	0	15
38	0	9.3723735	868	9.9875878	44	9.3847858	912	0.6122022	0	14
	1	9.3726338	867	9.9875725	43	9.3850615	911	0.6119245	0	13
39	0	9.3728940	867	9.9875572	42	9.3853370	910	0.6116468	0	12
	1	9.3731540	867	9.9875419	41	9.3856124	909	0.6113691	0	11
40	0	9.3734139	866	9.9875266	40	9.3858876	908	0.6110914	0	10
	1	9.3736736	865	9.9875113	39	9.3861627	907	0.6108137	0	9
41	0	9.3739331	865	9.9874960	38	9.3864376	906	0.6105360	0	8
	1	9.3741925	864	9.9874807	37	9.3867123	905	0.6102583	0	7
42	0	9.3744517	863	9.9874654	36	9.3869869	904	0.6100006	0	6
	1	9.3747107	863	9.9874501	35	9.3872613	903	0.6097229	0	5
43	0	9.3749696	862	9.9874348	34	9.3875356	902	0.6094452	0	4
	1	9.3752283	862	9.9874195	33	9.3878097	901	0.6091675	0	3
44	0	9.3754868	862	9.9874041	32	9.3880837	900	0.6088898	0	2
	1	9.3757452	861	9.9873887	31	9.3883575	899	0.6086121	0	1
45	0	9.3760034	860	9.9873732	30	9.3886312	898	0.6083344	0	0
	1	9.3762618	859	9.9873577	29	9.3889047	897	0.6080567	0	359
46	0	9.3765194	859	9.9873423	28	9.3891781	896	0.6077790	0	358
	1	9.3767771	858	9.9873268	27	9.3894513	895	0.6075013	0	357
47	0	9.3770347	858	9.9873113	26	9.3897244	894	0.6072236	0	356
	1	9.3772921	857	9.9872958	25	9.3899973	893	0.6069459	0	355
48	0	9.3775493	857	9.9872803	24	9.3902700	892	0.6066682	0	354
	1	9.3778064	856	9.9872648	23	9.3905426	891	0.6063905	0	353
49	0	9.3780633	856	9.9872492	22	9.3908151	890	0.6061128	0	352
	1	9.3783201	855	9.9872337	21	9.3910874	889	0.6058351	0	351
50	0	9.3785767	855	9.9872181	20	9.3913595	888	0.6055574	0	350
	1	9.3788331	854	9.9872026	19	9.3916315	887	0.6052797	0	349
51	0	9.3790894	854	9.9871870	18	9.3919034	886	0.6050020	0	348
	1	9.3793455	853	9.9871714	17	9.3921751	885	0.6047243	0	347
52	0	9.3796015	852	9.9871559	16	9.3924466	884	0.6044466	0	346
	1	9.3798573	852	9.9871403	15	9.3927180	883	0.6041689	0	345
53	0	9.3801129	852	9.9871246	14	9.3929893	882	0.6038912	0	344
	1	9.3803684	851	9.9871090	13	9.3932604	881	0.6036135	0	343
54	0	9.3806237	851	9.9870934	12	9.3935313	880	0.6033358	0	342
	1	9.3808789	850	9.9870778	11	9.3938021	879	0.6030581	0	341
55	0	9.3811339	849	9.9870621	10	9.3940727	878	0.6027804	0	340
	1	9.3813887	849	9.9870465	9	9.3943432	877	0.6025027	0	339
56	0	9.3816434	848	9.9870308	8	9.3946136	876	0.6022250	0	338
	1	9.3818979	848	9.9870151	7	9.3948838	875	0.6019473	0	337
57	0	9.3821523	847	9.9869994	6	9.3951538	874	0.6016696	0	336
	1	9.3824065	847	9.9869837	5	9.3954238	873	0.6013919	0	335
58	0	9.3826605	847	9.9869679	4	9.3956936	872	0.6011142	0	334
	1	9.3829144	846	9.9869521	3	9.3959631	871	0.6008365	0	333
59	0	9.3831682	845	9.9869363	2	9.3962326	870	0.6005588	0	332
	1	9.3834218	844	9.9869205	1	9.3965019	869	0.6002811	0	331
60	0	9.3836752		9.9869041		9.3967711		0.6000034	0	330
	1		10"		10"		10"		1	329
°	'	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	'	°

76 deg.

"	"	l. sin.	diff. 10"	l. cosin.	d. 10"	l. tang.	d. 10"	l. cotan.	"	"
0	0	9.3326780	844	9.9850241	53	9.3067711	806	0.6032289	0	60
0	30	9.3832984	844	9.9850884	53	9.3072401	806	0.6030599	30	59
1	0	9.3841815	844	9.9850726	53	9.3073089	806	0.6028911	0	58
1	30	9.3844345	843	9.9850568	53	9.3073777	805	0.6027223	30	57
2	0	9.3846873	844	9.9850410	53	9.3074465	804	0.6025537	0	56
2	30	9.3849399	844	9.9850253	53	9.3081147	804	0.6018853	30	55
3	0	9.3851924	841	9.9850094	53	9.3083830	804	0.6016170	0	54
3	30	9.3854447	841	9.9849936	53	9.3086511	804	0.6013489	30	53
4	0	9.3856969	840	9.9849778	53	9.3089191	803	0.6010809	0	52
4	30	9.3859489	840	9.9849620	53	9.3091870	803	0.6008131	30	51
5	0	9.3862008	839	9.9849461	53	9.3094547	802	0.6005453	0	50
5	30	9.3864525	839	9.9849303	53	9.3097228	802	0.6002778	30	49
6	0	9.3867040	839	9.9849144	53	9.3099909	801	0.6000104	0	48
6	30	9.3869554	838	9.9848986	53	9.4002589	800	0.5997431	30	47
7	0	9.3872067	837	9.9848827	53	9.4005269	800	0.5994760	0	46
7	30	9.3874578	836	9.9848668	53	9.4007910	800	0.5992090	30	45
8	0	9.3877087	836	9.9848509	53	9.4010578	800	0.5989420	0	44
8	30	9.3879595	835	9.9848350	53	9.4013245	800	0.5986755	30	43
9	0	9.3882101	835	9.9848191	54	9.4015910	800	0.5984090	0	42
9	30	9.3884606	834	9.9848031	54	9.4018574	800	0.5981426	30	41
10	0	9.3887119	834	9.9847872	53	9.4021237	800	0.5978763	0	40
10	30	9.3889631	833	9.9847712	53	9.4023898	800	0.5976102	30	39
11	0	9.3892141	833	9.9847553	53	9.4026558	800	0.5973442	0	38
11	30	9.3894650	833	9.9847393	53	9.4029216	800	0.5970784	30	37
12	0	9.3897156	832	9.9847233	53	9.4031873	800	0.5968127	0	36
12	30	9.3899662	831	9.9847073	53	9.4034528	800	0.5965472	30	35
13	0	9.3902166	831	9.9846913	53	9.4037182	800	0.5962818	0	34
13	30	9.3904678	831	9.9846753	53	9.4039835	800	0.5960165	30	33
14	0	9.3907179	830	9.9846593	53	9.4042486	800	0.5957514	0	32
14	30	9.3909689	829	9.9846433	54	9.4045136	800	0.5954864	30	31
15	0	9.3912187	828	9.9846273	54	9.4047784	800	0.5952216	0	30
15	30	9.3914693	828	9.9846112	53	9.4050431	800	0.5949569	30	29
16	0	9.3917198	828	9.9845952	54	9.4053076	800	0.5946924	0	28
16	30	9.3919701	828	9.9845791	54	9.4055720	800	0.5944280	30	27
17	0	9.3922199	827	9.9845630	54	9.4058363	800	0.5941637	0	26
17	30	9.3924693	827	9.9845469	53	9.4061004	800	0.5938995	30	25
18	0	9.3927182	826	9.9845308	53	9.4063644	800	0.5936355	0	24
18	30	9.3929673	825	9.9845147	53	9.4066282	800	0.5933718	30	23
19	0	9.3932165	825	9.9844986	54	9.4068919	800	0.5931081	0	22
19	30	9.3934650	824	9.9844825	53	9.4071555	800	0.5928445	30	21
20	0	9.3937138	824	9.9844663	53	9.4074189	800	0.5925811	0	20
20	30	9.3939624	823	9.9844502	54	9.4076822	800	0.5923178	30	19
21	0	9.3942109	823	9.9844340	53	9.4079453	800	0.5920547	0	18
21	30	9.3944592	822	9.9844179	54	9.4082083	800	0.5917917	30	17
22	0	9.3947079	822	9.9844017	54	9.4084712	800	0.5915288	0	16
22	30	9.3949564	822	9.9843855	54	9.4087339	800	0.5912661	30	15
23	0	9.3952048	821	9.9843693	54	9.4089965	800	0.5910035	0	14
23	30	9.3954530	821	9.9843531	54	9.4092589	800	0.5907411	30	13
24	0	9.3957011	821	9.9843369	54	9.4095212	800	0.5904788	0	12
24	30	9.3959491	819	9.9843207	54	9.4097834	800	0.5902166	30	11
25	0	9.3961969	819	9.9843045	55	9.4100454	800	0.5899546	0	10
25	30	9.3964445	818	9.9842882	54	9.4103073	800	0.5896927	30	9
26	0	9.3966920	818	9.9842720	55	9.4105690	800	0.5894310	0	8
26	30	9.3969393	818	9.9842557	54	9.4108308	800	0.5891694	30	7
27	0	9.3971865	817	9.9842394	54	9.4110921	800	0.5889081	0	6
27	30	9.3974336	816	9.9842231	54	9.4113534	800	0.5886466	30	5
28	0	9.3976805	816	9.9842069	55	9.4116146	800	0.5883854	0	4
28	30	9.3979273	815	9.9841906	55	9.4118757	800	0.5881243	30	3
29	0	9.3981740	815	9.9841742	55	9.4121366	800	0.5878634	0	2
29	30	9.3984205	815	9.9841579	54	9.4123974	800	0.5876026	30	1
30	0	9.3986666	10"	9.9841416	10"	9.4126581	10"	0.5873419	0	0
30	30	9.3989125	10"	9.9841253	10"	9.4129188	10"	0.5870812	30	0

14 deg.

"	"	L. sin.	diff. 10"	L. cosin.	d. 10"	L. tang.	diff. 10"	L. cotan.	"	"
30	o	9.3985596	814	9.9859416	55	9.4106581	868	0.5873419	o	30
30	o	9.3988438	814	9.9859463	55	9.4109186	868	0.5870814	o	30
31	o	9.3990798	813	9.9859509	55	9.4111789	868	0.5868211	o	29
30	o	9.3993157	813	9.9859555	55	9.4114392	867	0.5865608	o	29
30	o	9.3995515	813	9.9859601	55	9.4116993	866	0.5863007	o	28
30	o	9.3997874	812	9.9859648	55	9.4119596	867	0.5860408	o	28
33	o	9.4000232	811	9.9859694	55	9.4122191	865	0.5857809	o	27
30	o	9.4002591	810	9.9859740	55	9.4124788	865	0.5855212	o	27
34	o	9.4004949	810	9.9859786	55	9.4127383	865	0.5852617	o	26
30	o	9.4007307	810	9.9859832	55	9.4129977	865	0.5850023	o	26
36	o	9.4010348	809	9.9859877	55	9.4132570	865	0.5847430	o	25
30	o	9.4012706	809	9.9859923	55	9.4135162	863	0.5844838	o	25
36	o	9.4015061	808	9.9859969	55	9.4137752	863	0.5842248	o	24
30	o	9.4017416	808	9.9860015	55	9.4140341	864	0.5839655	o	24
37	o	9.4019769	807	9.9860061	55	9.4142928	864	0.5837072	o	23
30	o	9.4022124	807	9.9860107	55	9.4145514	862	0.5834486	o	23
38	o	9.4024478	806	9.9860153	55	9.4148100	862	0.5831901	o	22
30	o	9.4026830	806	9.9860199	55	9.4150683	861	0.5829317	o	22
39	o	9.4029182	805	9.9860245	55	9.4153265	860	0.5826735	o	21
30	o	9.4031534	805	9.9860291	55	9.4155846	860	0.5824154	o	21
40	o	9.4034454	805	9.9860337	55	9.4158425	859	0.5821575	o	20
30	o	9.4036807	804	9.9860383	55	9.4161003	859	0.5818997	o	20
41	o	9.4039158	804	9.9860429	55	9.4163580	858	0.5816420	o	19
30	o	9.4041508	803	9.9860475	55	9.4166155	858	0.5813845	o	19
42	o	9.4043856	803	9.9860521	55	9.4168729	858	0.5811271	o	18
30	o	9.4046203	803	9.9860567	55	9.4171302	857	0.5808695	o	18
43	o	9.4048549	802	9.9860613	55	9.4173874	856	0.5806120	o	17
30	o	9.4050894	801	9.9860659	55	9.4176444	856	0.5803545	o	17
44	o	9.4053238	801	9.9860705	55	9.4179013	855	0.5800970	o	16
30	o	9.4055581	800	9.9860751	55	9.4181580	855	0.5798392	o	16
45	o	9.4057923	800	9.9860797	55	9.4184146	855	0.5795815	o	15
30	o	9.4060264	799	9.9860843	55	9.4186711	855	0.5793238	o	15
46	o	9.4062603	798	9.9860889	55	9.4189275	854	0.5790661	o	14
30	o	9.4064941	799	9.9860935	55	9.4191837	854	0.5788083	o	14
47	o	9.4067278	797	9.9860981	55	9.4194398	853	0.5785506	o	13
30	o	9.4069614	797	9.9861027	55	9.4196957	853	0.5782928	o	13
48	o	9.4071949	797	9.9861073	55	9.4199515	853	0.5780348	o	12
30	o	9.4074283	796	9.9861119	55	9.4202072	852	0.5777768	o	12
49	o	9.4076616	795	9.9861165	55	9.4204628	852	0.5775187	o	11
30	o	9.4078948	795	9.9861211	55	9.4207182	852	0.5772605	o	11
50	o	9.4081279	795	9.9861257	55	9.4209735	851	0.5770025	o	10
30	o	9.4083608	794	9.9861303	55	9.4212287	850	0.5767443	o	10
51	o	9.4085936	794	9.9861349	55	9.4214838	849	0.5764861	o	9
30	o	9.4088263	793	9.9861395	55	9.4217387	849	0.5762278	o	9
52	o	9.4090589	793	9.9861441	55	9.4219935	849	0.5759695	o	8
30	o	9.4092914	792	9.9861487	55	9.4222481	849	0.5757111	o	8
53	o	9.4095238	792	9.9861533	55	9.4225026	848	0.5754526	o	7
30	o	9.4097561	792	9.9861579	55	9.4227570	848	0.5751940	o	7
54	o	9.4100000	791	9.9861625	55	9.4230113	847	0.5749353	o	6
30	o	9.4102437	791	9.9861671	55	9.4232654	847	0.5746765	o	6
55	o	9.4104872	790	9.9861717	55	9.4235194	847	0.5744176	o	5
30	o	9.4107306	790	9.9861763	55	9.4237733	846	0.5741587	o	5
56	o	9.4109739	789	9.9861809	55	9.4240271	846	0.5738997	o	4
30	o	9.4112170	789	9.9861855	55	9.4242808	846	0.5736405	o	4
57	o	9.4114600	789	9.9861901	55	9.4245342	846	0.5733812	o	3
30	o	9.4117029	788	9.9861947	55	9.4247875	845	0.5731218	o	3
58	o	9.4119456	788	9.9861993	55	9.4250408	844	0.5728623	o	2
30	o	9.4121882	787	9.9862039	55	9.4252939	843	0.5726028	o	2
59	o	9.4124307	786	9.9862085	55	9.4255469	843	0.5723431	o	1
30	o	9.4126730	786	9.9862131	55	9.4257997	843	0.5720833	o	1
60	o	9.4129152	786	9.9862177	55	9.4260525	843	0.5718235	o	0
60	o	9.4129952	10"	9.9849438	10"	9.4260525	10"	9.5719475	10"	1
"	"	L. cosin.	diff.	L. sin.	d.	L. cotan.	diff.	L. tang.	"	"

75 deg.

15 deg.

°	'	l. sin.	dif.	l. cosin.	d.	l. tang.	dif.	l. cotan.	"	'
		10"		10"	10"		10"		10"	
0	0	9.4189962	785	9.9849438	57	9.4189962	842	0.5719475	0	60
0	30	9.4192319	785	9.9849468	57	9.4183051	841	0.5719549	30	59
1	0	9.4194674	785	9.9849499	57	9.4185575	841	0.5719621	30	58
1	30	9.4197028	785	9.9849530	57	9.4188099	841	0.5719691	30	57
2	0	9.4199381	784	9.9849560	57	9.4190621	840	0.5719760	30	56
2	30	9.4201732	783	9.9849590	56	9.4193142	840	0.5719828	30	55
3	0	9.4204082	783	9.9849620	57	9.4195661	840	0.5719896	30	54
3	30	9.4206430	783	9.9849651	57	9.4198180	839	0.5719963	30	53
4	0	9.4208778	782	9.9849681	57	9.4200697	839	0.5720029	30	52
4	30	9.4211123	782	9.9849711	57	9.4203215	838	0.5720094	30	51
5	0	9.4213468	781	9.9849740	56	9.4205727	838	0.5720158	30	50
5	30	9.4215811	780	9.9849770	57	9.4208241	837	0.5720221	30	49
6	0	9.4218152	781	9.9849800	57	9.4210753	837	0.5720284	30	48
6	30	9.4220493	780	9.9849829	57	9.4213264	836	0.5720346	30	47
7	0	9.4222832	779	9.9849859	57	9.4215773	836	0.5720407	30	46
7	30	9.4225169	779	9.9849888	57	9.4218281	835	0.5720467	30	45
8	0	9.4227506	778	9.9849917	57	9.4220789	835	0.5720526	30	44
8	30	9.4229841	778	9.9849946	57	9.4223294	835	0.5720584	30	43
9	0	9.4232174	778	9.9849975	57	9.4225799	835	0.5720641	30	42
9	30	9.4234506	778	9.9850004	57	9.4228302	834	0.5720697	30	41
10	0	9.4236837	777	9.9850033	57	9.4230804	834	0.5720752	30	40
10	30	9.4239167	776	9.9850062	57	9.4233305	834	0.5720807	30	39
11	0	9.4241495	776	9.9850090	57	9.4235805	833	0.5720861	30	49
11	30	9.4243822	775	9.9850119	57	9.4238305	833	0.5720914	30	48
12	0	9.4246148	775	9.9850147	57	9.4240800	832	0.5720967	30	47
12	30	9.4248472	774	9.9850175	58	9.4243296	832	0.5721019	30	46
13	0	9.4250795	774	9.9850204	58	9.4245791	831	0.5721071	30	45
13	30	9.4253116	774	9.9850232	57	9.4248284	831	0.5721122	30	44
14	0	9.4255436	774	9.9850260	57	9.4250776	831	0.5721173	30	43
14	30	9.4257755	773	9.9850288	57	9.4253267	830	0.5721223	30	42
15	0	9.4260073	772	9.9850316	58	9.4255757	830	0.5721273	30	41
15	30	9.4262389	772	9.9850344	58	9.4258245	830	0.5721322	30	40
16	0	9.4264704	771	9.9850371	57	9.4260733	829	0.5721371	30	39
16	30	9.4267018	770	9.9850399	58	9.4263219	828	0.5721419	30	38
17	0	9.4269330	770	9.9850426	57	9.4265704	828	0.5721467	30	37
17	30	9.4271641	770	9.9850454	58	9.4268187	828	0.5721514	30	36
18	0	9.4273950	770	9.9850481	58	9.4270670	827	0.5721561	30	35
18	30	9.4276259	769	9.9850508	58	9.4273151	827	0.5721607	30	34
19	0	9.4278566	768	9.9850535	58	9.4275631	826	0.5721653	30	41
19	30	9.4280871	769	9.9850562	58	9.4278109	826	0.5721698	30	40
20	0	9.4283175	767	9.9850589	58	9.4280587	825	0.5721743	30	39
20	30	9.4285479	767	9.9850616	58	9.4283065	825	0.5721787	30	38
21	0	9.4287780	767	9.9850642	58	9.4285538	825	0.5721831	30	37
21	30	9.4290081	766	9.9850669	58	9.4288012	824	0.5721874	30	36
22	0	9.4292380	766	9.9850695	58	9.4290485	823	0.5721917	30	35
22	30	9.4294678	765	9.9850722	58	9.4292956	823	0.5721960	30	34
23	0	9.4296974	765	9.9850748	58	9.4295426	823	0.5722002	30	33
23	30	9.4299269	765	9.9850774	58	9.4297895	823	0.5722044	30	32
24	0	9.4301563	764	9.9850800	58	9.4300363	822	0.5722086	30	31
24	30	9.4303856	764	9.9850826	58	9.4302830	822	0.5722127	30	30
25	0	9.4306147	763	9.9850852	58	9.4305295	822	0.5722168	30	29
25	30	9.4308437	763	9.9850878	58	9.4307759	821	0.5722208	30	34
26	0	9.4310726	762	9.9850903	58	9.4310222	821	0.5722248	30	33
26	30	9.4313013	762	9.9850929	58	9.4312684	820	0.5722287	30	32
27	0	9.4315299	762	9.9850954	58	9.4315145	819	0.5722326	30	31
27	30	9.4317584	761	9.9850979	58	9.4317604	819	0.5722364	30	30
28	0	9.4319867	761	9.9851004	58	9.4320062	819	0.5722402	30	29
28	30	9.4322149	761	9.9851029	58	9.4322519	818	0.5722439	30	28
29	0	9.4324430	760	9.9851054	58	9.4324975	818	0.5722476	30	27
29	30	9.4326710	760	9.9851079	58	9.4327430	818	0.5722512	30	26
30	0	9.4328988		9.9851105		9.4329883		0.5722547		25
°	'	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	"	'
		10"		10"	10"		10"		10"	

74 deg.

-16 deg.

#	l. sin.	diff.	l. cosin.	d.	l. tang.	diff.	l. cotan.	#
0	9.4403381	734	9.9828416	60	9.4574064	795	0.5420036	0
1	9.4403383	734	9.9828425	61	9.4577348	794	0.5420060	30
2	9.4407784	733	9.9828404	61	9.4579730	794	0.5420070	0
3	9.4409984	733	9.9828773	61	9.4582111	794	0.5417889	30
4	9.4412182	733	9.9828791	61	9.4584491	794	0.5415509	0
5	9.4414380	732	9.9828751	61	9.4586870	793	0.5413130	30
6	9.4416576	732	9.9828728	61	9.4589248	793	0.5410752	0
7	9.4418771	732	9.9828714	61	9.4591625	793	0.5408375	30
8	9.4420965	731	9.9828664	61	9.4594001	791	0.5405999	0
9	9.4423158	730	9.9828672	60	9.4596375	792	0.5403625	30
10	9.4425349	730	9.9828600	61	9.4598749	791	0.5401251	0
11	9.4427539	730	9.9828548	61	9.4601121	791	0.5398879	30
12	9.4429728	730	9.9828536	61	9.4603492	791	0.5396508	0
13	9.4431916	729	9.9828503	61	9.4605863	789	0.5394137	30
14	9.4434103	728	9.9828471	61	9.4608232	789	0.5391768	0
15	9.4436288	728	9.9828438	61	9.4610600	789	0.5389400	30
16	9.4438472	728	9.9828406	61	9.4612967	788	0.5387033	0
17	9.4440655	728	9.9828373	61	9.4615333	788	0.5384667	30
18	9.4442837	727	9.9828340	61	9.4617697	788	0.5382303	0
19	9.4445018	727	9.9828307	61	9.4620061	788	0.5379939	30
20	9.4447197	727	9.9828274	61	9.4622425	788	0.5377577	0
21	9.4449376	726	9.9828241	61	9.4624788	787	0.5375215	30
22	9.4451553	726	9.9828208	61	9.4627145	787	0.5372855	0
23	9.4453729	725	9.9828174	61	9.4629505	787	0.5370495	30
24	9.4455904	724	9.9828141	61	9.4631863	786	0.5368137	0
25	9.4458077	724	9.9828107	61	9.4634220	785	0.5365780	30
26	9.4460250	723	9.9828074	61	9.4636576	785	0.5363424	0
27	9.4462421	723	9.9828040	61	9.4638931	785	0.5361069	30
28	9.4464591	723	9.9828006	61	9.4641285	784	0.5358713	0
29	9.4466760	722	9.9827972	61	9.4643638	784	0.5356358	30
30	9.4468927	722	9.9827938	61	9.4645990	783	0.5354010	0
31	9.4471094	722	9.9827904	61	9.4648340	783	0.5351660	30
32	9.4473260	722	9.9827870	61	9.4650690	783	0.5349310	0
33	9.4475425	722	9.9827835	61	9.4653038	783	0.5346960	30
34	9.4477586	721	9.9827801	61	9.4655386	782	0.5344614	0
35	9.4479748	721	9.9827766	61	9.4657732	782	0.5342268	30
36	9.4481909	720	9.9827731	61	9.4660078	782	0.5339922	0
37	9.4484069	719	9.9827697	61	9.4662422	781	0.5337578	30
38	9.4486227	719	9.9827662	61	9.4664765	781	0.5335235	0
39	9.4488384	719	9.9827627	61	9.4667107	781	0.5332893	30
40	9.4490540	718	9.9827592	61	9.4669448	780	0.5330550	0
41	9.4492695	718	9.9827557	61	9.4671788	780	0.5328212	30
42	9.4494849	717	9.9827521	61	9.4674127	780	0.5325873	0
43	9.4496991	717	9.9827486	61	9.4676465	779	0.5323535	30
44	9.4499133	716	9.9827451	61	9.4678802	779	0.5321198	0
45	9.4501273	716	9.9827415	61	9.4681138	778	0.5318866	30
46	9.4503412	716	9.9827379	61	9.4683473	778	0.5316537	0
47	9.4505550	715	9.9827343	61	9.4685806	778	0.5314204	30
48	9.4507687	715	9.9827308	61	9.4688139	777	0.5311871	0
49	9.4509822	715	9.9827272	61	9.4690470	777	0.5309530	30
50	9.4511957	714	9.9827236	61	9.4692801	776	0.5307199	0
51	9.4514090	714	9.9827200	61	9.4695130	776	0.5304870	30
52	9.4516222	714	9.9827163	61	9.4697459	776	0.5302541	0
53	9.4518353	713	9.9827127	61	9.4699786	776	0.5300215	30
54	9.4520483	713	9.9827090	61	9.4702112	775	0.5297888	0
55	9.4522612	712	9.9827054	61	9.4704438	775	0.5295566	30
56	9.4524739	712	9.9827017	61	9.4706762	774	0.5293248	0
57	9.4526865	712	9.9826981	61	9.4709085	774	0.5290931	30
58	9.4528991	711	9.9826944	61	9.4711407	774	0.5288615	0
59	9.4531116	711	9.9826907	61	9.4713728	774	0.5286297	30
60	9.4533241	710	9.9826870	61	9.4716048	774	0.5283980	0

73 deg.

19*

18 deg.

°	'	L. sin.		dif.	L. cosin.		d.	L. tang.		dif.	L. cotan.		°	'
		10'			10'			10'			10'			
0	0	9.489824	648	9.978063	9.978063	68	9.511760	717	0.4882040	0	0.4882040	0	60	
0	30	9.490377	648	9.978188	9.978188	68	9.511900	716	0.4880091	0	0.4880091	0	30	
1	0	9.490919	647	9.978313	9.978313	68	9.512037	716	0.4877943	0	0.4877943	0	59	
1	30	9.491461	647	9.978437	9.978437	68	9.512174	716	0.4875796	0	0.4875796	0	30	
2	0	9.492002	647	9.978561	9.978561	68	9.512311	715	0.4873649	0	0.4873649	0	58	
2	30	9.492543	646	9.978685	9.978685	68	9.512448	715	0.4871502	0	0.4871502	0	30	
3	0	9.493084	646	9.978809	9.978809	69	9.512585	714	0.4869355	0	0.4869355	0	57	
3	30	9.493625	646	9.978933	9.978933	69	9.512722	714	0.4867208	0	0.4867208	0	30	
4	0	9.494166	645	9.979057	9.979057	69	9.512859	714	0.4865061	0	0.4865061	0	56	
4	30	9.494707	645	9.979181	9.979181	69	9.512996	714	0.4862914	0	0.4862914	0	30	
5	0	9.495248	645	9.979305	9.979305	69	9.513133	714	0.4860767	0	0.4860767	0	55	
5	30	9.495789	644	9.979429	9.979429	69	9.513270	713	0.4858620	0	0.4858620	0	30	
6	0	9.496330	644	9.979553	9.979553	69	9.513407	713	0.4856473	0	0.4856473	0	54	
6	30	9.496871	644	9.979677	9.979677	69	9.513544	712	0.4854326	0	0.4854326	0	30	
7	0	9.497412	644	9.979801	9.979801	69	9.513681	712	0.4852179	0	0.4852179	0	53	
7	30	9.497953	644	9.979925	9.979925	69	9.513818	712	0.4850032	0	0.4850032	0	30	
8	0	9.498494	643	9.980049	9.980049	69	9.513955	712	0.4847885	0	0.4847885	0	52	
8	30	9.499035	643	9.980173	9.980173	69	9.514092	712	0.4845738	0	0.4845738	0	30	
9	0	9.499576	643	9.980297	9.980297	70	9.514229	711	0.4843591	0	0.4843591	0	51	
9	30	9.500117	642	9.980421	9.980421	70	9.514366	711	0.4841444	0	0.4841444	0	30	
10	0	9.500658	642	9.980545	9.980545	70	9.514503	711	0.4839297	0	0.4839297	0	50	
10	30	9.501199	641	9.980669	9.980669	70	9.514640	710	0.4837150	0	0.4837150	0	30	
11	0	9.501740	641	9.980793	9.980793	70	9.514777	710	0.4835003	0	0.4835003	0	49	
11	30	9.502281	640	9.980917	9.980917	70	9.514914	710	0.4832856	0	0.4832856	0	30	
12	0	9.502822	641	9.981041	9.981041	70	9.515051	710	0.4830709	0	0.4830709	0	48	
12	30	9.503363	640	9.981165	9.981165	70	9.515188	709	0.4828562	0	0.4828562	0	30	
13	0	9.503904	640	9.981289	9.981289	70	9.515325	709	0.4826415	0	0.4826415	0	47	
13	30	9.504445	639	9.981413	9.981413	70	9.515462	709	0.4824268	0	0.4824268	0	30	
14	0	9.504986	639	9.981537	9.981537	70	9.515599	708	0.4822121	0	0.4822121	0	46	
14	30	9.505527	638	9.981661	9.981661	70	9.515736	708	0.4819974	0	0.4819974	0	30	
15	0	9.506068	638	9.981785	9.981785	70	9.515873	708	0.4817827	0	0.4817827	0	45	
15	30	9.506609	638	9.981909	9.981909	70	9.516010	707	0.4815680	0	0.4815680	0	30	
16	0	9.507150	638	9.982033	9.982033	70	9.516147	707	0.4813533	0	0.4813533	0	44	
16	30	9.507691	638	9.982157	9.982157	70	9.516284	707	0.4811386	0	0.4811386	0	30	
17	0	9.508232	638	9.982281	9.982281	70	9.516421	707	0.4809239	0	0.4809239	0	43	
17	30	9.508773	637	9.982405	9.982405	70	9.516558	707	0.4807092	0	0.4807092	0	30	
18	0	9.509314	637	9.982529	9.982529	70	9.516695	707	0.4804945	0	0.4804945	0	42	
18	30	9.509855	636	9.982653	9.982653	70	9.516832	706	0.4802798	0	0.4802798	0	30	
19	0	9.510396	636	9.982777	9.982777	70	9.516969	706	0.4800651	0	0.4800651	0	41	
19	30	9.510937	635	9.982901	9.982901	70	9.517106	706	0.4798504	0	0.4798504	0	30	
20	0	9.511478	635	9.983025	9.983025	70	9.517243	705	0.4796357	0	0.4796357	0	40	
20	30	9.512019	635	9.983149	9.983149	70	9.517380	705	0.4794210	0	0.4794210	0	30	
21	0	9.512560	635	9.983273	9.983273	70	9.517517	704	0.4792063	0	0.4792063	0	39	
21	30	9.513101	634	9.983397	9.983397	70	9.517654	704	0.4789916	0	0.4789916	0	30	
22	0	9.513642	634	9.983521	9.983521	70	9.517791	704	0.4787769	0	0.4787769	0	38	
22	30	9.514183	634	9.983645	9.983645	70	9.517928	704	0.4785622	0	0.4785622	0	30	
23	0	9.514724	634	9.983769	9.983769	70	9.518065	704	0.4783475	0	0.4783475	0	37	
23	30	9.515265	634	9.983893	9.983893	70	9.518202	703	0.4781328	0	0.4781328	0	30	
24	0	9.515806	633	9.984017	9.984017	70	9.518339	703	0.4779181	0	0.4779181	0	36	
24	30	9.516347	633	9.984141	9.984141	70	9.518476	702	0.4777034	0	0.4777034	0	30	
25	0	9.516888	633	9.984265	9.984265	70	9.518613	702	0.4774887	0	0.4774887	0	35	
25	30	9.517429	632	9.984389	9.984389	70	9.518750	702	0.4772740	0	0.4772740	0	30	
26	0	9.517970	632	9.984513	9.984513	70	9.518887	701	0.4770593	0	0.4770593	0	34	
26	30	9.518511	631	9.984637	9.984637	70	9.519024	701	0.4768446	0	0.4768446	0	30	
27	0	9.519052	631	9.984761	9.984761	70	9.519161	701	0.4766299	0	0.4766299	0	33	
27	30	9.519593	631	9.984885	9.984885	70	9.519298	701	0.4764152	0	0.4764152	0	30	
28	0	9.520134	630	9.985009	9.985009	70	9.519435	701	0.4762005	0	0.4762005	0	32	
28	30	9.520675	630	9.985133	9.985133	70	9.519572	701	0.4759858	0	0.4759858	0	30	
29	0	9.521216	630	9.985257	9.985257	70	9.519709	700	0.4757711	0	0.4757711	0	31	
29	30	9.521757	630	9.985381	9.985381	70	9.519846	700	0.4755564	0	0.4755564	0	30	
30	0	9.522298	630	9.985505	9.985505	70	9.520000	700	0.4753417	0	0.4753417	0	30	

71. dec.

18 deg.

l. sin.	diff.	l. cosin.	d.	l. tang.	diff.	l. cotan.	
10'	10'	10'	10'	10'	10'	10'	
30	o	9.5014764	630	9.7765866	71	9.5046199	699
31	o	9.5016652	629	9.7765384	70	9.5047797	700
32	o	9.5018538	628	9.7764913	71	9.5049395	699
33	o	9.5020424	628	9.7764431	70	9.5050993	699
34	o	9.5022308	628	9.7763950	71	9.5052591	698
35	o	9.5024192	628	9.7763468	71	9.5054189	698
36	o	9.5026075	627	9.7762986	71	9.5055787	698
37	o	9.5027957	627	9.7762504	71	9.5057385	698
38	o	9.5029838	627	9.7762022	71	9.5058983	698
39	o	9.5031718	626	9.7761540	71	9.5060581	698
40	o	9.5033597	626	9.7761058	71	9.5062179	697
41	o	9.5035475	626	9.7760576	71	9.5063777	697
42	o	9.5037353	626	9.7760094	71	9.5065375	697
43	o	9.5039230	625	9.7759612	71	9.5066973	696
44	o	9.5041105	625	9.7759130	71	9.5068571	696
45	o	9.5042980	624	9.7758648	71	9.5070169	696
46	o	9.5044853	625	9.7758166	71	9.5071767	696
47	o	9.5046726	624	9.7757684	71	9.5073365	696
48	o	9.5048598	624	9.7757202	71	9.5074963	695
49	o	9.5050469	624	9.7756720	71	9.5076561	695
50	o	9.5052339	624	9.7756238	71	9.5078159	695
51	o	9.5054209	623	9.7755756	71	9.5079757	694
52	o	9.5056077	623	9.7755274	71	9.5081355	694
53	o	9.5057945	623	9.7754792	71	9.5082953	693
54	o	9.5059811	622	9.7754310	71	9.5084551	693
55	o	9.5061677	622	9.7753828	71	9.5086149	693
56	o	9.5063542	621	9.7753346	71	9.5087747	692
57	o	9.5065406	621	9.7752864	71	9.5089345	692
58	o	9.5067269	620	9.7752382	71	9.5090943	692
59	o	9.5069131	620	9.7751900	71	9.5092541	691
60	o	9.5070992	620	9.7751418	71	9.5094139	691
61	o	9.5072852	620	9.7750936	71	9.5095737	691
62	o	9.5074712	619	9.7750454	71	9.5097335	690
63	o	9.5076570	620	9.7749972	71	9.5098933	690
64	o	9.5078428	619	9.7749490	71	9.5100531	690
65	o	9.5080285	619	9.7749008	71	9.5102129	689
66	o	9.5082141	618	9.7748526	71	9.5103727	689
67	o	9.5083996	618	9.7748044	71	9.5105325	689
68	o	9.5085850	618	9.7747562	71	9.5106923	688
69	o	9.5087703	618	9.7747080	71	9.5108521	688
70	o	9.5089556	617	9.7746598	71	9.5110119	688
71	o	9.5091407	617	9.7746116	71	9.5111717	687
72	o	9.5093258	616	9.7745634	71	9.5113315	687
73	o	9.5095107	616	9.7745152	71	9.5114913	687
74	o	9.5096956	616	9.7744670	71	9.5116511	686
75	o	9.5098804	616	9.7744188	71	9.5118109	686
76	o	9.5100651	615	9.7743706	71	9.5119707	686
77	o	9.5102498	615	9.7743224	71	9.5121305	685
78	o	9.5104343	615	9.7742742	71	9.5122903	685
79	o	9.5106187	615	9.7742260	71	9.5124501	685
80	o	9.5108031	614	9.7741778	71	9.5126099	685
81	o	9.5109874	614	9.7741296	71	9.5127697	684
82	o	9.5111716	613	9.7740814	71	9.5129295	684
83	o	9.5113557	613	9.7740332	71	9.5130893	684
84	o	9.5115397	613	9.7739850	71	9.5132491	684
85	o	9.5117236	613	9.7739368	71	9.5134089	683
86	o	9.5119074	613	9.7738886	71	9.5135687	683
87	o	9.5120912	612	9.7738404	71	9.5137285	683
88	o	9.5122749	612	9.7737922	71	9.5138883	683
89	o	9.5124584	612	9.7737440	71	9.5140481	682
90	o	9.5126419	612	9.7736958	71	9.5142079	682
91	o	9.5128253	611	9.7736476	71	9.5143677	682
92	o	9.5130087	611	9.7735994	71	9.5145275	681
93	o	9.5131920	611	9.7735512	71	9.5146873	681
94	o	9.5133753	610	9.7735030	71	9.5148471	681
95	o	9.5135586	610	9.7734548	71	9.5150069	680
96	o	9.5137419	610	9.7734066	71	9.5151667	680
97	o	9.5139252	609	9.7733584	71	9.5153265	680
98	o	9.5141085	609	9.7733102	71	9.5154863	679
99	o	9.5142918	609	9.7732620	71	9.5156461	679
100	o	9.5144751	608	9.7732138	71	9.5158059	679

71 deg.

19 deg.

1	2	L. sin.	diff. 10"	L. cosin.	d. 10"	l. tang.	d. 10"	l. cotan.	1	2
0	0	9.8496419	618	9.9756701	73	9.5367719	683	0.4630081	0	60
0	30	9.8498253	611	9.9756483	72	9.5371770	684	0.4628230	30	0
0	0	9.8500086	611	9.9756265	72	9.5375821	683	0.4626379	0	30
0	30	9.8501919	610	9.9756048	73	9.5379871	683	0.4624529	30	0
0	0	9.8503750	610	9.9755830	73	9.5377920	683	0.4622680	0	30
0	30	9.8505581	610	9.9755612	73	9.5379969	682	0.4620831	30	0
0	0	9.8507410	610	9.9755394	73	9.5382017	682	0.4617983	0	30
0	30	9.8509239	610	9.9755176	73	9.5384064	682	0.4615136	30	0
0	0	9.8511067	609	9.9754957	72	9.5386110	682	0.4613290	0	30
0	30	9.8512894	609	9.9754739	73	9.5388156	682	0.4611445	30	0
0	0	9.8514721	608	9.9754521	73	9.5390200	681	0.4609600	0	30
0	30	9.8516546	608	9.9754302	73	9.5392244	681	0.4607756	30	0
0	0	9.8518371	608	9.9754083	73	9.5394287	681	0.4605913	0	30
0	30	9.8520194	608	9.9753865	73	9.5396330	680	0.4604070	30	0
0	0	9.8522017	607	9.9753646	73	9.5398371	681	0.4602228	0	30
0	30	9.8523839	607	9.9753427	73	9.5400412	681	0.4600385	30	0
0	0	9.8525660	607	9.9753208	74	9.5402453	679	0.4598547	0	30
0	30	9.8527480	607	9.9752988	73	9.5404492	680	0.4596708	30	0
0	0	9.8529300	606	9.9752769	73	9.5406531	679	0.4594869	0	30
0	30	9.8531118	606	9.9752550	73	9.5408569	679	0.4593031	30	0
0	0	9.8532936	606	9.9752330	73	9.5410606	679	0.4591193	0	30
0	30	9.8534753	605	9.9752111	74	9.5412642	678	0.4589358	30	0
0	0	9.8536569	605	9.9751891	73	9.5414678	678	0.4587522	0	30
0	30	9.8538386	605	9.9751671	73	9.5416713	678	0.4585687	30	0
0	0	9.8540198	605	9.9751451	73	9.5418747	678	0.4583853	0	30
0	30	9.8542018	604	9.9751231	73	9.5420781	677	0.4582019	30	0
0	0	9.8543824	604	9.9751011	73	9.5422813	677	0.4580187	0	30
0	30	9.8545636	604	9.9750791	74	9.5424848	677	0.4578356	30	0
0	0	9.8547447	603	9.9750570	73	9.5426877	676	0.4576523	0	30
0	30	9.8549257	603	9.9750350	73	9.5428907	677	0.4574693	30	0
0	0	9.8551066	603	9.9750129	73	9.5430937	676	0.4572863	0	30
0	30	9.8552875	602	9.9749909	74	9.5432966	676	0.4571034	30	0
0	0	9.8554682	602	9.9749688	74	9.5434994	676	0.4569206	0	30
0	30	9.8556489	602	9.9749467	73	9.5437022	676	0.4567378	30	0
0	0	9.8558295	601	9.9749246	73	9.5439048	676	0.4565552	0	30
0	30	9.8560100	601	9.9749025	73	9.5441074	676	0.4563726	30	0
0	0	9.8561904	601	9.9748804	74	9.5443100	676	0.4561900	0	30
0	30	9.8563707	601	9.9748583	74	9.5445124	676	0.4560076	30	0
0	0	9.8565510	600	9.9748361	73	9.5447148	675	0.4558252	0	30
0	30	9.8567311	601	9.9748140	74	9.5449171	674	0.4556429	30	0
0	0	9.8569112	600	9.9747918	73	9.5451193	674	0.4554607	0	30
0	30	9.8570912	600	9.9747697	74	9.5453215	674	0.4552785	30	0
0	0	9.8572711	600	9.9747475	74	9.5455236	673	0.4550964	0	30
0	30	9.8574509	600	9.9747253	74	9.5457256	673	0.4549144	30	0
0	0	9.8576307	600	9.9747031	74	9.5459276	673	0.4547324	0	30
0	30	9.8578103	599	9.9746809	74	9.5461294	673	0.4545506	30	0
0	0	9.8579899	598	9.9746587	74	9.5463312	673	0.4543688	0	30
0	30	9.8581694	598	9.9746365	74	9.5465330	673	0.4541871	30	0
0	0	9.8583488	598	9.9746142	74	9.5467346	672	0.4540056	0	30
0	30	9.8585281	598	9.9745920	74	9.5469362	671	0.4538243	30	0
0	0	9.8587074	597	9.9745697	74	9.5471377	671	0.4536433	0	30
0	30	9.8588865	597	9.9745474	74	9.5473391	671	0.4534625	30	0
0	0	9.8590656	597	9.9745252	75	9.5475405	671	0.4532818	0	30
0	30	9.8592445	597	9.9745029	75	9.5477417	671	0.4531013	30	0
0	0	9.8594235	596	9.9744806	75	9.5479430	670	0.4529209	0	30
0	30	9.8596024	596	9.9744583	75	9.5481441	670	0.4527406	30	0
0	0	9.8597811	596	9.9744360	74	9.5483452	669	0.4525604	0	30
0	30	9.8599598	596	9.9744136	74	9.5485462	669	0.4523803	30	0
0	0	9.8601383	596	9.9743913	75	9.5487471	669	0.4522003	0	30
0	30	9.8603168	596	9.9743689	74	9.5489479	670	0.4520204	30	0
0	0	9.8604953	10"	9.9743466	10"	9.5491487	10"	0.4518405	0	30
1	1	L. sin.	diff.	L. sin.	d.	L. cotan.	diff.	L. tang.	1	1

70 deg.

[illegible]

20 deg.

"	"	l. sin.	diff. 10"	l. cosin.	d. 10"	l. tang.	diff. 10"	l. cotan.	"	"
30	o	9.5443053	563	9.9715876	78	9.5787077	648	9.4267653	o	30
	30	9.5444998	563	9.9716640	79	9.5793022	648	9.4269598	o	30
31	o	9.5446532	563	9.9717404	79	9.5799227	641	9.4271543	o	29
	30	9.5448318	568	9.9718167	79	9.5805151	641	9.4273489	o	29
32	o	9.5450005	562	9.9718931	79	9.5810774	641	9.4275435	o	28
	30	9.5451691	568	9.9714694	79	9.5816997	640	9.4277380	o	28
33	o	9.5453376	568	9.9715457	79	9.5823019	640	9.4279326	o	27
	30	9.5455061	561	9.9716221	79	9.5829040	641	9.4281271	o	27
34	o	9.5456745	561	9.9716984	79	9.5835061	640	9.4283217	o	26
	30	9.5458428	561	9.9717747	80	9.5841081	640	9.4285162	o	26
35	o	9.5460110	561	9.9718509	79	9.5847098	639	9.4287108	o	25
	30	9.5461792	560	9.9719272	79	9.5853118	639	9.4289053	o	25
36	o	9.5463478	561	9.9720035	79	9.5859138	639	9.4291000	o	24
	30	9.5465163	559	9.9720797	79	9.5865158	639	9.4292945	o	24
37	o	9.5466832	560	9.9721560	80	9.5871178	638	9.4294891	o	23
	30	9.5468511	559	9.9722322	79	9.5877198	638	9.4296836	o	23
38	o	9.5470189	559	9.9723084	79	9.5883218	639	9.4298781	o	22
	30	9.5471865	559	9.9723846	79	9.5889238	639	9.4300726	o	22
39	o	9.5473542	559	9.9724608	79	9.5895258	638	9.4302671	o	21
	30	9.5475218	558	9.9725370	79	9.5901278	637	9.4304616	o	21
40	o	9.5476893	558	9.9726132	79	9.5907298	637	9.4306561	o	20
	30	9.5478567	558	9.9726894	80	9.5913318	637	9.4308506	o	20
41	o	9.5480240	558	9.9727656	79	9.5919338	637	9.4310451	o	19
	30	9.5481913	558	9.9728417	80	9.5925358	637	9.4312396	o	19
42	o	9.5483585	557	9.9729178	79	9.5931378	637	9.4314341	o	18
	30	9.5485256	557	9.9729940	79	9.5937398	637	9.4316286	o	18
43	o	9.5486927	557	9.9730701	80	9.5943418	637	9.4318231	o	17
	30	9.5488597	556	9.9731462	80	9.5949438	636	9.4320176	o	17
44	o	9.5490266	556	9.9732223	80	9.5955458	636	9.4322121	o	16
	30	9.5491934	556	9.9732984	79	9.5961478	636	9.4324066	o	16
45	o	9.5493602	555	9.9733744	80	9.5967498	636	9.4326011	o	15
	30	9.5495269	555	9.9734505	80	9.5973518	636	9.4327956	o	15
46	o	9.5496935	555	9.9735265	80	9.5979538	636	9.4329901	o	14
	30	9.5498600	554	9.9736026	80	9.5985558	636	9.4331846	o	14
47	o	9.5500265	554	9.9736786	80	9.5991578	636	9.4333791	o	13
	30	9.5501929	554	9.9737546	80	9.5997598	636	9.4335736	o	13
48	o	9.5503592	554	9.9738306	80	9.6003618	636	9.4337681	o	12
	30	9.5505254	554	9.9739066	80	9.6009638	636	9.4339626	o	12
49	o	9.5506916	554	9.9739826	80	9.6015658	636	9.4341571	o	11
	30	9.5508577	554	9.9740586	80	9.6021678	636	9.4343516	o	11
50	o	9.5510237	554	9.9741346	80	9.6027698	633	9.4345461	o	10
	30	9.5511897	553	9.9742105	80	9.6033718	633	9.4347406	o	10
51	o	9.5513556	553	9.9742865	80	9.6039738	633	9.4349351	o	9
	30	9.5515214	553	9.9743624	80	9.6045758	633	9.4351296	o	9
52	o	9.5516871	553	9.9744383	80	9.6051778	633	9.4353241	o	8
	30	9.5518528	552	9.9745143	81	9.6057798	633	9.4355186	o	8
53	o	9.5520184	552	9.9745902	81	9.6063818	633	9.4357131	o	7
	30	9.5521839	552	9.9746661	81	9.6069838	633	9.4359076	o	7
54	o	9.5523494	551	9.9747419	80	9.6075858	633	9.4361021	o	6
	30	9.5525148	551	9.9748178	80	9.6081878	633	9.4362966	o	6
55	o	9.5526801	550	9.9748937	81	9.6087898	631	9.4364911	o	5
	30	9.5528453	551	9.9749695	81	9.6093918	631	9.4366856	o	5
56	o	9.5530105	550	9.9750454	81	9.6099938	631	9.4368801	o	4
	30	9.5531756	551	9.9751212	80	9.6105958	631	9.4370746	o	4
57	o	9.5533406	550	9.9751970	80	9.6111978	631	9.4372691	o	3
	30	9.5535055	550	9.9752728	80	9.6117998	630	9.4374636	o	3
58	o	9.5536704	549	9.9753486	80	9.6124018	631	9.4376581	o	2
	30	9.5538352	549	9.9754244	80	9.6130038	629	9.4378526	o	2
59	o	9.5539999	549	9.9755002	81	9.6136058	629	9.4380471	o	1
	30	9.5541646	548	9.9755760	81	9.6142078	629	9.4382416	o	1
60	o	9.5543292		9.9756517		9.6148098		9.4384361	o	0
			10"		10"		10"			
"	"	l. cosin.	diff.	l. sin.	d.	l. cotan.	diff.	l. tang.	"	"

60 deg.

21 deg.

°	'	l. sin.	dif. 10"	l. cosin.	d. 10'	l. tang.	dif. 10"	l. cotan.	'	°
0	0	9.554322	548	9.9701517	80	9.5841774	630	0.4158226	0	60
	30	9.5544937	548	9.9701275	81	9.5843662	629	0.4155338	30	
1	0	9.5546881	548	9.9701032	81	9.5845549	629	0.4152451	0	59
	30	9.5548825	548	9.9700789	80	9.5847435	629	0.4149565	30	
2	0	9.5549868	547	9.9700547	81	9.5849321	629	0.4146679	0	58
	30	9.5551810	548	9.9700304	81	9.5851207	628	0.4143793	30	
3	0	9.5553152	547	9.9700061	81	9.5853091	628	0.4140909	0	57
	30	9.5554793	547	9.9699818	82	9.5854975	628	0.4138025	30	
4	0	9.5556435	546	9.9699574	81	9.5856859	627	0.4135141	0	56
	30	9.5558072	547	9.9699331	81	9.5858742	627	0.4132258	30	
5	0	9.5559711	546	9.9699087	81	9.5860624	627	0.4129376	0	55
	30	9.5561349	546	9.9698844	81	9.5862505	627	0.4126495	30	
6	0	9.5562987	545	9.9698600	81	9.5864386	627	0.4123614	0	54
	30	9.5564623	546	9.9698356	81	9.5866267	627	0.4120733	30	
7	0	9.5566265	545	9.9698112	81	9.5868147	626	0.4117853	0	53
	30	9.5567894	545	9.9697868	81	9.5870026	626	0.4114974	0	52
8	0	9.5569529	544	9.9697624	81	9.5871904	626	0.4112091	0	51
	30	9.5571163	544	9.9697380	81	9.5873782	626	0.4109210	30	
9	0	9.5572796	544	9.9697136	82	9.5875660	625	0.4106330	0	50
	30	9.5574428	544	9.9696891	81	9.5877537	625	0.4103453	30	
10	0	9.5576060	543	9.9696647	82	9.5879413	625	0.4100577	0	49
	30	9.5577691	543	9.9696402	81	9.5881288	625	0.4117812	30	
11	0	9.5579321	543	9.9696158	82	9.5883163	625	0.4114937	0	48
	30	9.5580950	543	9.9695913	82	9.5885038	624	0.4112062	30	
12	0	9.5582579	543	9.9695668	82	9.5886912	624	0.4109187	0	47
	30	9.5584207	543	9.9695423	82	9.5888785	624	0.4106312	30	
13	0	9.5585835	542	9.9695177	81	9.5890657	624	0.4103437	0	46
	30	9.5587462	542	9.9694932	82	9.5892529	624	0.4100562	30	
14	0	9.5589088	542	9.9694687	82	9.5894401	624	0.4097687	0	45
	30	9.5590713	542	9.9694441	81	9.5896272	623	0.4094812	30	
15	0	9.5592338	541	9.9694196	82	9.5898142	623	0.4091937	0	44
	30	9.5593962	541	9.9693950	82	9.5900012	623	0.4089062	30	
16	0	9.5595585	541	9.9693704	82	9.5901881	622	0.4086187	0	43
	30	9.5597207	541	9.9693458	82	9.5903749	622	0.4083312	30	
17	0	9.5598829	541	9.9693212	82	9.5905617	622	0.4080437	0	42
	30	9.5600450	541	9.9692965	82	9.5907484	622	0.4077562	30	
18	0	9.5602071	540	9.9692720	82	9.5909351	622	0.4074687	0	41
	30	9.5603691	539	9.9692474	82	9.5911217	622	0.4071812	30	
19	0	9.5605310	539	9.9692227	82	9.5913082	622	0.4068937	0	40
	30	9.5606928	539	9.9691981	82	9.5914947	622	0.4066062	30	
20	0	9.5608546	539	9.9691734	82	9.5916812	621	0.4063187	0	39
	30	9.5610163	539	9.9691487	82	9.5918675	622	0.4060312	30	
21	0	9.5611779	539	9.9691241	83	9.5920539	620	0.4057437	0	38
	30	9.5613395	538	9.9690994	83	9.5922401	621	0.4054562	30	
22	0	9.5615010	538	9.9690746	82	9.5924263	621	0.4051687	0	37
	30	9.5616624	538	9.9690499	82	9.5926124	621	0.4048812	30	
23	0	9.5618237	538	9.9690252	82	9.5927985	620	0.4045937	0	36
	30	9.5619850	538	9.9690005	83	9.5929846	619	0.4043062	30	
24	0	9.5621462	538	9.9689757	82	9.5931705	620	0.4040187	0	35
	30	9.5623074	537	9.9689510	83	9.5933564	620	0.4037312	30	
25	0	9.5624685	536	9.9689262	83	9.5935423	619	0.4034437	0	34
	30	9.5626295	536	9.9689014	83	9.5937281	619	0.4031562	30	
26	0	9.5627904	536	9.9688766	83	9.5939138	619	0.4028687	0	33
	30	9.5629513	536	9.9688518	83	9.5940995	618	0.4025812	30	
27	0	9.5631121	536	9.9688270	83	9.5942851	618	0.4022937	0	32
	30	9.5632728	536	9.9688022	83	9.5944705	619	0.4020062	30	
28	0	9.5634335	535	9.9687773	82	9.5946556	618	0.4017187	0	31
	30	9.5635941	535	9.9687525	83	9.5948410	618	0.4014312	30	
29	0	9.5637546	535	9.9687276	82	9.5950262	617	0.4011437	0	30
	30	9.5639150	535	9.9687028	83	9.5952113	617	0.4008562	30	
30	0	9.5640754	10"	9.9686779	10'	9.5953975	10"	0.4005687	0	29
1	0	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	'	1

68 deg.

22 deg.

1	2	l. sin.	diff.	l. cosin.	d.	l. tang.	diff.	l. cotan.	10'	1	2
1	2	l. sin.	diff.	l. cosin.	d.	l. tang.	diff.	l. cotan.	10'	1	2
0	0	9.575754	501	9.9671669	85	9.6064096	606	0.3535904	0	60	
0	30	9.5757517	501	9.9671403	85	9.6065914	606	0.3534086	0	30	
1	0	9.5758880	500	9.9671148	85	9.6067732	605	0.3532268	0	59	
1	30	9.5760441	501	9.9670893	86	9.6069549	605	0.3530451	0	30	
2	0	9.5762003	500	9.9670637	85	9.6071366	605	0.3528634	0	58	
2	30	9.5763563	500	9.9670381	85	9.6073182	605	0.3526818	0	30	
3	0	9.5765123	500	9.9670126	85	9.6074997	605	0.3525003	0	57	
3	30	9.5766682	500	9.9669870	86	9.6076812	605	0.3523188	0	30	
4	0	9.5768240	500	9.9669614	85	9.6078627	605	0.3521373	0	56	
4	30	9.5769798	519	9.9669357	86	9.6080441	604	0.3519559	0	30	
5	0	9.5761366	518	9.9669101	85	9.6082254	605	0.3517746	0	55	
5	30	9.5762924	519	9.9668845	85	9.6084067	604	0.3515933	0	30	
6	0	9.5764482	518	9.9668588	85	9.6085880	604	0.3514120	0	54	
6	30	9.5766040	519	9.9668332	86	9.6087691	604	0.3512309	0	30	
7	0	9.5767598	518	9.9668076	85	9.6089503	603	0.3510497	0	53	
7	30	9.5769156	518	9.9667818	85	9.6091313	604	0.3508687	0	30	
8	0	9.5760685	518	9.9667562	86	9.6093124	603	0.3506876	0	52	
8	30	9.5762243	517	9.9667305	86	9.6094933	603	0.3505067	0	30	
9	0	9.5763799	517	9.9667048	86	9.6096744	603	0.3503258	0	51	
9	30	9.5765341	517	9.9666790	85	9.6098551	603	0.3501449	0	30	
10	0	9.5766898	517	9.9666533	86	9.6100359	602	0.3500041	0	50	
10	30	9.5768448	517	9.9666276	86	9.6102166	603	0.3500000	0	30	
11	0	9.5769991	518	9.9666018	86	9.6103973	602	0.3500000	0	49	
11	30	9.5771540	518	9.9665761	86	9.6105780	602	0.3500000	0	30	
12	0	9.5773088	516	9.9665503	86	9.6107586	601	0.3500000	0	48	
12	30	9.5774636	516	9.9665245	86	9.6109391	601	0.3500000	0	30	
13	0	9.5776183	515	9.9664987	86	9.6111196	601	0.3500000	0	47	
13	30	9.5777729	515	9.9664729	86	9.6112900	601	0.3500000	0	30	
14	0	9.5779275	515	9.9664471	86	9.6114704	601	0.3500000	0	46	
14	30	9.5780819	515	9.9664213	86	9.6116507	601	0.3500000	0	30	
15	0	9.5782364	514	9.9663954	86	9.6118309	601	0.3500000	0	45	
15	30	9.5783907	515	9.9663696	86	9.6120112	600	0.3500000	0	30	
16	0	9.5785450	515	9.9663437	87	9.6121913	601	0.3500000	0	44	
16	30	9.5786993	514	9.9663179	87	9.6123714	600	0.3500000	0	30	
17	0	9.5788535	513	9.9662920	87	9.6125515	600	0.3500000	0	43	
17	30	9.5790076	513	9.9662661	86	9.6127315	600	0.3500000	0	30	
18	0	9.5791616	513	9.9662402	87	9.6129114	600	0.3500000	0	42	
18	30	9.5793156	513	9.9662143	87	9.6130913	600	0.3500000	0	30	
19	0	9.5794695	513	9.9661884	87	9.6132712	599	0.3500000	0	41	
19	30	9.5796234	512	9.9661624	86	9.6134509	600	0.3500000	0	30	
20	0	9.5797772	512	9.9661365	87	9.6136307	599	0.3500000	0	40	
20	30	9.5799310	512	9.9661105	86	9.6138104	598	0.3500000	0	30	
21	0	9.5800845	512	9.9660846	87	9.6139900	598	0.3500000	0	39	
21	30	9.5802381	512	9.9660586	87	9.6141796	598	0.3500000	0	30	
22	0	9.5803917	511	9.9660326	87	9.6143591	598	0.3500000	0	38	
22	30	9.5805452	511	9.9660066	87	9.6145386	598	0.3500000	0	30	
23	0	9.5806986	511	9.9659806	87	9.6147180	598	0.3500000	0	37	
23	30	9.5808519	511	9.9659546	87	9.6148973	598	0.3500000	0	30	
24	0	9.5810052	511	9.9659285	86	9.6150766	598	0.3500000	0	36	
24	30	9.5811584	511	9.9659025	87	9.6152559	598	0.3500000	0	30	
25	0	9.5813116	510	9.9658764	86	9.6154351	597	0.3500000	0	35	
25	30	9.5814647	510	9.9658504	87	9.6156143	597	0.3500000	0	30	
26	0	9.5816177	510	9.9658243	87	9.6157934	597	0.3500000	0	34	
26	30	9.5817707	509	9.9657982	87	9.6159724	597	0.3500000	0	30	
27	0	9.5819236	509	9.9657721	87	9.6161514	597	0.3500000	0	33	
27	30	9.5820764	509	9.9657460	87	9.6163304	596	0.3500000	0	30	
28	0	9.5822292	509	9.9657199	87	9.6165093	596	0.3500000	0	32	
28	30	9.5823819	509	9.9656938	87	9.6166881	596	0.3500000	0	30	
29	0	9.5825345	509	9.9656677	88	9.6168666	596	0.3500000	0	31	
29	30	9.5826871	509	9.9656415	87	9.6170456	596	0.3500000	0	30	
30	0	9.5828397	10'	9.9656153	10'	9.6172243	10'	0.3500000	10'	30	
1	1	l. cosin.	diff.	l. sin.	d.	l. cotan.	diff.	l. tang.	10'	1	1

67 deg.
20*

°	'	l. sin.	diff. 10"	l. cosin.	d. 10"	l. tang.	diff. 10"	l. cotan.	"	'
0	0	9.5918780	465	9.9542861	90	9.6878860	585	0.3791484	0	60
0	30	9.5920088	465	9.9542993	90	9.6879785	585	0.3791776	0	59
1	0	9.5921735	465	9.9543724	90	9.6881381	585	0.3791769	0	59
1	30	9.5923414	465	9.9544566	90	9.6883786	585	0.3791681	0	58
2	0	9.5925498	465	9.9545427	90	9.6886944	585	0.3791460	0	58
3	0	9.5928053	465	9.9546318	90	9.6891794	585	0.3789707	0	57
3	30	9.5929698	465	9.9546550	90	9.6892884	584	0.3789624	0	57
4	0	9.5931818	464	9.9548381	90	9.6898081	584	0.3789199	0	56
4	30	9.5933666	464	9.9549112	90	9.6899585	584	0.3789147	0	56
5	0	9.5935149	464	9.9549843	90	9.6899405	584	0.3789065	0	55
5	30	9.5936361	464	9.9549794	90	9.6899607	584	0.3790393	0	56
6	0	9.5936113	464	9.9549705	90	9.6899788	583	0.3790198	0	54
6	30	9.5936674	464	9.9549736	90	9.6899858	584	0.3790448	0	54
7	0	9.5936975	463	9.9549766	90	9.6901308	584	0.3789918	0	53
7	30	9.5936665	463	9.9549646	90	9.6901628	583	0.3789948	0	53
8	0	9.5941034	463	9.9549287	90	9.6904807	583	0.3789193	0	52
8	30	9.5941613	463	9.9549357	90	9.6905557	583	0.3789344	0	52
9	0	9.5943991	462	9.9549587	90	9.6908304	583	0.3789166	0	51
9	30	9.5945469	462	9.9549517	90	9.6910058	582	0.3789948	0	51
10	0	9.5946946	462	9.9549447	90	9.6911799	582	0.3789801	0	50
10	30	9.5948424	462	9.9548877	90	9.6913645	582	0.3789445	0	50
11	0	9.5949898	462	9.9548606	90	9.6915692	582	0.3789478	0	49
11	30	9.5951373	462	9.9548336	90	9.6917732	582	0.3789603	0	49
12	0	9.5952848	461	9.9548065	90	9.6919782	582	0.3789181	0	48
12	30	9.5954322	461	9.9547795	91	9.6921837	582	0.3789473	0	48
13	0	9.5955795	461	9.9547524	91	9.6923897	582	0.3777789	0	47
13	30	9.5957268	461	9.9547253	91	9.6926015	581	0.3778985	0	47
14	0	9.5958740	461	9.9546982	91	9.6928159	581	0.3774841	0	46
14	30	9.5960212	461	9.9546711	91	9.6930301	580	0.3772999	0	46
15	0	9.5961685	461	9.9546440	91	9.6932454	580	0.3770766	0	45
15	30	9.5963158	460	9.9546168	91	9.6934608	581	0.3769015	0	45
16	0	9.5964634	460	9.9545897	91	9.6936777	580	0.3767273	0	44
16	30	9.5966105	460	9.9545625	91	9.6938948	580	0.3765532	0	44
17	0	9.5967578	459	9.9545354	91	9.6941122	580	0.3763792	0	43
17	30	9.5969050	459	9.9545082	91	9.6943298	580	0.3762052	0	43
18	0	9.5970523	458	9.9544810	91	9.6945476	580	0.3760313	0	42
18	30	9.5971995	458	9.9544538	91	9.6947651	580	0.3758574	0	42
19	0	9.5973431	458	9.9544266	91	9.6949835	579	0.3756835	0	41
19	30	9.5974897	458	9.9543994	91	9.6952020	579	0.3755097	0	41
20	0	9.5976368	458	9.9543721	90	9.6954268	580	0.3753360	0	40
20	30	9.5977827	458	9.9543449	91	9.6956514	578	0.3751622	0	40
21	0	9.5979291	458	9.9543177	91	9.6958761	579	0.3749886	0	39
21	30	9.5980754	458	9.9542905	91	9.6961015	579	0.3748150	0	39
22	0	9.5982217	457	9.9542633	91	9.6963268	579	0.3746414	0	38
22	30	9.5983679	457	9.9542361	91	9.6965521	578	0.3744679	0	38
23	0	9.5985141	457	9.9542088	91	9.6967766	578	0.3742944	0	37
23	30	9.5986604	457	9.9541816	91	9.6969998	578	0.3741210	0	37
24	0	9.5988063	456	9.9541543	91	9.6972204	577	0.3739476	0	36
24	30	9.5989523	456	9.9541270	91	9.6974436	577	0.3737743	0	36
25	0	9.5990982	456	9.9541002	91	9.6976670	577	0.3736010	0	35
25	30	9.5992441	456	9.9540730	91	9.6978902	577	0.3734278	0	35
26	0	9.5993900	456	9.9540458	91	9.6981134	577	0.3732546	0	34
26	30	9.5995357	456	9.9540186	91	9.6983366	577	0.3730815	0	34
27	0	9.5996814	456	9.9539913	91	9.6985598	577	0.3729084	0	33
27	30	9.5998272	456	9.9539641	91	9.6987830	577	0.3727354	0	33
28	0	9.5999726	456	9.9539368	91	9.6990062	577	0.3725624	0	32
28	30	9.6001181	456	9.9539096	91	9.6992294	576	0.3723894	0	32
29	0	9.6002636	456	9.9538824	91	9.6994526	576	0.3722165	0	31
29	30	9.6004090	456	9.9538552	91	9.6996758	576	0.3720437	0	31
30	0	9.6005544	454	9.9538280	91	9.6998991	576	0.3718709	0	30
30	30	9.6006997	454	9.9538008	91	9.6999019	577	0.3716981	0	30
°	'	l. sin.	diff.	l. cosin.	d.	l. tang.	diff.	l. cotan.	"	'

I	"	L. sin.	diff. 10"	L. cosin.	d. 10"	L. tang.	diff. 10"	L. cotan.	"	I
30	0	9.6005997	484	9.9603778	92	9.6383019	576	0.3616981	c	30
	1	9.6008449	484	9.9603703	91	9.6384755	576	0.3616954	c	29
31	0	9.6010901	484	9.9603628	91	9.6386491	575	0.3616927	c	28
	1	9.6013353	484	9.9603553	91	9.6388227	575	0.3616901	c	27
32	0	9.6015803	483	9.9603478	91	9.6389963	575	0.3616875	c	26
	1	9.6018253	483	9.9603403	92	9.6391699	575	0.3616849	c	25
33	0	9.6020703	483	9.9603328	92	9.6393435	575	0.3616823	c	24
	1	9.6023153	483	9.9603253	92	9.6395171	575	0.3616797	c	23
34	0	9.6025603	483	9.9603178	92	9.6396907	574	0.3616771	c	22
	1	9.6028048	482	9.9603103	92	9.6398643	575	0.3616745	c	21
	2									
35	0	9.6030495	482	9.9603028	92	9.6400379	574	0.3616719	c	20
	1	9.6032942	482	9.9602953	92	9.6402115	574	0.3616693	c	19
36	0	9.6035388	482	9.9602878	92	9.6403851	574	0.3616667	c	18
	1	9.6037833	482	9.9602803	92	9.6405587	574	0.3616641	c	17
37	0	9.6040278	482	9.9602728	92	9.6407323	573	0.3616615	c	16
	1	9.6042723	481	9.9619846	92	9.6409059	573	0.3616589	c	15
38	0	9.6045166	482	9.9619771	92	9.6410795	573	0.3616563	c	14
	1	9.6047611	481	9.9619696	92	9.6412531	573	0.3616537	c	13
39	0	9.6050052	481	9.9619621	92	9.6414267	573	0.3616511	c	12
	1	9.6052494	481	9.9619546	93	9.6416003	573	0.3616485	c	11
	2									
40	0	9.6054936	480	9.9618463	92	9.6417739	573	0.3616459	c	10
	1	9.6057377	480	9.9618388	92	9.6419475	572	0.3616433	c	9
41	0	9.6059817	480	9.9618313	92	9.6421211	572	0.3616407	c	8
	1	9.6062257	480	9.9618238	92	9.6422947	572	0.3616381	c	7
42	0	9.6064696	480	9.9618163	93	9.6424683	572	0.3616355	c	6
	1	9.6067135	479	9.9618088	92	9.6426419	571	0.3616329	c	5
43	0	9.6069573	479	9.9618013	93	9.6428155	572	0.3616303	c	4
	1	9.6072011	479	9.9617938	93	9.6429891	572	0.3616277	c	3
44	0	9.6074448	479	9.9617863	93	9.6431627	571	0.3616251	c	2
	1	9.6076884	478	9.9617788	93	9.6433363	571	0.3616225	c	1
	2									
45	0	9.6079320	478	9.9617713	93	9.6435099	571	0.3616199	c	0
	1	9.6081755	478	9.9617638	93	9.6436835	571	0.3616173	c	0
46	0	9.6084190	478	9.9617563	93	9.6438571	571	0.3616147	c	0
	1	9.6086624	478	9.9617488	93	9.6440307	571	0.3616121	c	0
47	0	9.6089057	478	9.9617413	93	9.6442043	571	0.3616095	c	0
	1	9.6091490	478	9.9617338	93	9.6443779	571	0.3616069	c	0
48	0	9.6093923	477	9.9617263	93	9.6445515	571	0.3616043	c	0
	1	9.6096355	477	9.9617188	93	9.6447251	570	0.3616017	c	0
49	0	9.6098786	477	9.9617113	93	9.6448987	569	0.3615991	c	0
	1	9.6101217	477	9.9617038	93	9.6450723	569	0.3615965	c	0
	2									
50	0	9.6103647	477	9.9616963	93	9.6452459	569	0.3615939	c	0
	1	9.6106077	476	9.9616888	93	9.6454195	569	0.3615913	c	0
51	0	9.6108506	476	9.9616813	93	9.6455931	569	0.3615887	c	0
	1	9.6110934	476	9.9616738	93	9.6457667	569	0.3615861	c	0
52	0	9.6113362	476	9.9616663	93	9.6459403	569	0.3615835	c	0
	1	9.6115790	476	9.9616588	93	9.6461139	569	0.3615809	c	0
53	0	9.6118218	476	9.9616513	93	9.6462875	569	0.3615783	c	0
	1	9.6120646	476	9.9616438	93	9.6464611	569	0.3615757	c	0
54	0	9.6123074	475	9.9616363	93	9.6466347	568	0.3615731	c	0
	1	9.6125502	475	9.9616288	94	9.6468083	568	0.3615705	c	0
	2									
55	0	9.6127930	475	9.9616213	93	9.6469819	568	0.3615679	c	0
	1	9.6130358	475	9.9616138	93	9.6471555	568	0.3615653	c	0
56	0	9.6132786	475	9.9616063	94	9.6473291	567	0.3615627	c	0
	1	9.6135214	474	9.9615988	93	9.6475027	567	0.3615601	c	0
57	0	9.6137642	474	9.9615913	93	9.6476763	567	0.3615575	c	0
	1	9.6140070	474	9.9615838	94	9.6478499	567	0.3615549	c	0
58	0	9.6142498	473	9.9615763	94	9.6480235	567	0.3615523	c	0
	1	9.6144926	474	9.9615688	94	9.6481971	566	0.3615497	c	0
59	0	9.6147354	473	9.9615613	94	9.6483707	566	0.3615471	c	0
	1	9.6149782	473	9.9615538	94	9.6485443	566	0.3615445	c	0
60	0	9.6152210	473	9.9615463	94	9.6487179	566	0.3615419	c	0
	1	9.6154638	473	9.9615388	94	9.6488915	566	0.3615393	c	0
	2									
		L. cosin.	diff.	L. sin.	d.	L. cotan.	diff.	L. tang.	"	

"	"	L. sin.	diff.	L. cosin.	d.	L. tang.	diff.	L. cotan.	"	"
			10"		10"		10"			
0	0	9.609133	473	9.9607308	94	9.6482881	867	0.3614169	0	60
1	0	9.609141	473	9.9607280	94	9.6482801	867	0.3612469	0	59
2	0	9.609149	473	9.9607253	94	9.6482720	866	0.3610770	0	58
3	0	9.609157	472	9.9607226	94	9.6482640	866	0.3609071	0	57
4	0	9.609165	473	9.9607200	94	9.6482560	865	0.3607372	0	56
5	0	9.610200	472	9.960684	94	9.6494386	866	0.3606574	0	55
6	0	9.6101635	472	9.9606512	94	9.6494306	866	0.3605777	0	54
7	0	9.6101265	472	9.9606330	94	9.6497700	866	0.3604980	0	53
8	0	9.6100895	471	9.9606048	94	9.6509117	868	0.3604183	0	52
9	0	9.6100525	471	9.9605765	94	9.6501113	868	0.3603387	0	51
10	0	9.6107493	471	9.9604484	94	9.6508809	865	0.3602591	0	50
11	0	9.6107118	470	9.9604319	94	9.6508801	865	0.3601795	0	49
12	0	9.6111520	470	9.9603319	94	9.6507823	865	0.3600999	0	48
13	0	9.6112941	470	9.9603354	94	9.6506887	866	0.3600203	0	47
14	0	9.6113362	470	9.9603071	95	9.6511081	864	0.3608719	0	46
15	0	9.6117717	470	9.9602585	95	9.6512974	864	0.3607923	0	45
16	0	9.6118389	470	9.9602222	95	9.6514657	864	0.3607127	0	44
17	0	9.6119989	469	9.9601938	94	9.6516340	864	0.3606331	0	43
18	0	9.6121397	469	9.9601655	95	9.6517974	863	0.3605535	0	42
19	0	9.6122804	469	9.9601371	95	9.6519611	863	0.3604739	0	41
20	0	9.6124211	469	9.9601088	95	9.6521248	863	0.3603943	0	40
21	0	9.6125617	469	9.9600804	94	9.6522883	863	0.3603147	0	39
22	0	9.6127023	469	9.9600520	94	9.6524518	863	0.3602351	0	38
23	0	9.6128428	468	9.9600236	94	9.6526152	863	0.3601555	0	37
24	0	9.6129833	468	9.9599952	94	9.6527787	863	0.3600759	0	36
25	0	9.6131237	468	9.9599668	95	9.6529422	863	0.3600000	0	35
26	0	9.6132641	468	9.9599384	95	9.6531057	863	0.3600000	0	34
27	0	9.6134044	467	9.9599100	95	9.6532692	863	0.3600000	0	33
28	0	9.6135446	468	9.9598815	95	9.6534327	863	0.3600000	0	32
29	0	9.6136848	468	9.9598530	94	9.6535962	863	0.3600000	0	31
30	0	9.6138250	467	9.9598246	95	9.6537597	862	0.3600000	0	30
31	0	9.6139651	467	9.9597961	95	9.6539232	862	0.3600000	0	29
32	0	9.6141051	467	9.9597676	95	9.6540867	862	0.3600000	0	28
33	0	9.6142451	466	9.9597391	95	9.6542502	861	0.3600000	0	27
34	0	9.6143850	466	9.9597106	95	9.6544137	861	0.3600000	0	26
35	0	9.6145249	466	9.9596821	95	9.6545772	861	0.3600000	0	25
36	0	9.6146647	465	9.9596536	95	9.6547407	860	0.3600000	0	24
37	0	9.6148044	465	9.9596250	95	9.6549042	860	0.3600000	0	23
38	0	9.6149441	466	9.9595964	95	9.6550677	861	0.3600000	0	22
39	0	9.6150838	465	9.9595678	95	9.6552312	860	0.3600000	0	21
40	0	9.6152235	465	9.9595392	95	9.6553947	860	0.3600000	0	20
41	0	9.6153632	465	9.9595106	95	9.6555582	860	0.3600000	0	19
42	0	9.6155029	465	9.9594821	95	9.6557217	860	0.3600000	0	18
43	0	9.6156426	464	9.9594535	95	9.6558852	860	0.3600000	0	17
44	0	9.6157823	465	9.9594249	95	9.6560487	860	0.3600000	0	16
45	0	9.6159220	464	9.9593964	95	9.6562122	860	0.3600000	0	15
46	0	9.6160617	464	9.9593678	95	9.6563757	860	0.3600000	0	14
47	0	9.6162014	464	9.9593392	95	9.6565392	860	0.3600000	0	13
48	0	9.6163411	463	9.9593106	95	9.6567027	860	0.3600000	0	12
49	0	9.6164808	463	9.9592821	95	9.6568662	860	0.3600000	0	11
50	0	9.6166205	463	9.9592535	95	9.6570297	860	0.3600000	0	10
51	0	9.6167602	463	9.9592249	95	9.6571932	860	0.3600000	0	9
52	0	9.6169000	463	9.9591963	95	9.6573567	860	0.3600000	0	8
53	0	9.6170397	463	9.9591678	95	9.6575202	860	0.3600000	0	7
54	0	9.6171794	463	9.9591392	95	9.6576837	860	0.3600000	0	6
55	0	9.6173191	463	9.9591106	95	9.6578472	860	0.3600000	0	5
56	0	9.6174588	463	9.9590821	95	9.6580107	860	0.3600000	0	4
57	0	9.6175985	462	9.9590535	95	9.6581742	860	0.3600000	0	3
58	0	9.6177382	462	9.9590249	95	9.6583377	860	0.3600000	0	2
59	0	9.6178779	462	9.9589963	95	9.6585012	860	0.3600000	0	1
60	0	9.6180176	463	9.9589678	95	9.6586647	860	0.3600000	0	0
61	0	9.6181573	463	9.9589392	95	9.6588282	860	0.3600000	0	0
62	0	9.6182970	463	9.9589106	95	9.6589917	860	0.3600000	0	0
63	0	9.6184367	463	9.9588821	95	9.6591552	860	0.3600000	0	0
64	0	9.6185764	463	9.9588535	95	9.6593187	860	0.3600000	0	0
65	0	9.6187161	463	9.9588249	95	9.6594822	860	0.3600000	0	0
66	0	9.6188558	463	9.9587963	95	9.6596457	860	0.3600000	0	0
67	0	9.6189955	463	9.9587678	95	9.6598092	860	0.3600000	0	0
68	0	9.6191352	463	9.9587392	95	9.6599727	860	0.3600000	0	0
69	0	9.6192749	463	9.9587106	95	9.6601362	860	0.3600000	0	0
70	0	9.6194146	463	9.9586821	95	9.6602997	860	0.3600000	0	0
71	0	9.6195543	463	9.9586535	95	9.6604632	860	0.3600000	0	0
72	0	9.6196940	463	9.9586249	95	9.6606267	860	0.3600000	0	0
73	0	9.6198337	463	9.9585963	95	9.6607902	860	0.3600000	0	0
74	0	9.6199734	463	9.9585678	95	9.6609537	860	0.3600000	0	0
75	0	9.6201131	463	9.9585392	95	9.6611172	860	0.3600000	0	0
76	0	9.6202528	463	9.9585106	95	9.6612807	860	0.3600000	0	0
77	0	9.6203925	463	9.9584821	95	9.6614442	860	0.3600000	0	0
78	0	9.6205322	463	9.9584535	95	9.6616077	860	0.3600000	0	0
79	0	9.6206719	463	9.9584249	95	9.6617712	860	0.3600000	0	0
80	0	9.6208116	463	9.9583963	95	9.6619347	860	0.3600000	0	0
81	0	9.6209513	463	9.9583678	95	9.6620982	860	0.3600000	0	0
82	0	9.6210910	463	9.9583392	95	9.6622617	860	0.3600000	0	0
83	0	9.6212307	463	9.9583106	95	9.6624252	860	0.3600000	0	0
84	0	9.6213704	463	9.9582821	95	9.6625887	860	0.3600000	0	0
85	0	9.6215101	463	9.9582535	95	9.6627522	860	0.3600000	0	0
86	0	9.6216498	463	9.9582249	95	9.6629157	860	0.3600000	0	0
87	0	9.6217895	463	9.9581963	95	9.6630792	860	0.3600000	0	0
88	0	9.6219292	463	9.9581678	95	9.6632427	860	0.3600000	0	0
89	0	9.6220689	463	9.9581392	95	9.6634062	860	0.3600000	0	0
90	0	9.6222086	463	9.9581106	95	9.6635697	860	0.3600000	0	0
91	0	9.6223483	463	9.9580821	95	9.6637332	860	0.3600000	0	0
92	0	9.6224880	463	9.9580535	95	9.6638967	860	0.3600000	0	0
93	0	9.6226277	463	9.9580249	95	9.6640602	860	0.3600000	0	0
94	0	9.6227674	463	9.9579963	95	9.6642237	860	0.3600000	0	0
95	0	9.6229071	463	9.9579678	95	9.6643872	860	0.3600000	0	0
96	0	9.6230468	463	9.9579392	95	9.6645507	860	0.3600000	0	0
97	0	9.6231865	463	9.9579106	95	9.6647142	860	0.3600000	0	0
98	0	9.6233262	463	9.9578821	95	9.6648777	860	0.3600000	0	0
99	0	9.6234659	463	9.9578535	95	9.6650412	860	0.3600000	0	0
100	0	9.6236056	463	9.9578249	95	9.6652047	860	0.3600000	0	0
101	0	9.6237453	463	9.9577963	95	9.6653682	860	0.3600000	0	0
102	0	9.6238850	463	9.9577678	95	9.6655317	860	0.3600000	0	0
103	0	9.6240247	463	9.9577392	95	9.6656952	860	0.3600000	0	0
104	0	9.6241644	463	9.9577106	95	9.6658587	860	0.3600000	0	0
105	0	9.6243041	463	9.9576821	95	9.6660222	860	0.3600000	0	0
106	0	9.6244438	463	9.9576535	95	9.6661857	860	0.3600000	0	0
107	0	9.6245835	463	9.9576249	95	9.6663492	860	0.3600000	0	0
108	0	9.6247232	463	9.9575963	95	9.6665127	860	0.3600000	0	0
109	0	9.6248629	463	9.9575678	95	9.6666762	860	0.3600000	0	0
110	0	9.6250026	463	9.9575392	95	9.6668397	860	0.3600000	0	0
111	0	9.6251423	463	9.9575106	95	9.6670032	860	0.3600000	0	0
112	0	9.6252820	463	9.9574821	95	9.6671667	860	0.3600000	0	0

24 deg.

1	"	L. sin.	diff.	L. cosin.	d.	L. tang.	diff.	L. cotan.	"	1
—	—	10"	10"	10"	10"	10"	10"	10"	—	—
30	0	9.617870	462	9.6590299	96	9.6587641	557	0.3419059	0	30
	30	9.6178655	462	9.6589941	96	9.6587714	558	0.3411885	0	30
31	0	9.6180041	461	9.6589563	96	9.6590387	558	0.3409513	0	30
	30	9.6181425	461	9.6589365	96	9.6590600	558	0.3407940	0	30
32	0	9.6182809	462	9.6589077	96	9.6593733	557	0.3406367	0	28
	30	9.6184193	461	9.6588788	96	9.6595405	557	0.3404595	0	30
33	0	9.6185576	461	9.6588500	96	9.6597076	557	0.3402924	0	27
	30	9.6186959	461	9.6588211	96	9.6598747	557	0.3401253	0	26
34	0	9.6188341	460	9.6587923	97	9.6600418	557	0.3399582	0	26
	30	9.6189722	461	9.6587634	96	9.6602089	556	0.3397911	0	25
35	0	9.6191103	461	9.6587345	96	9.6603758	557	0.3396242	0	25
	30	9.6192484	460	9.6587056	96	9.6605428	556	0.3394572	0	24
36	0	9.6193864	460	9.6586767	97	9.6607097	556	0.3392903	0	24
	30	9.6195243	460	9.6586477	96	9.6608766	556	0.3391234	0	23
37	0	9.6196622	459	9.6586188	96	9.6610434	556	0.3389566	0	23
	30	9.6198000	460	9.6585899	97	9.6612102	556	0.3387898	0	22
38	0	9.6199378	459	9.6585609	96	9.6613769	556	0.3386231	0	22
	30	9.6200755	459	9.6585319	96	9.6615436	556	0.3384564	0	21
39	0	9.6202132	459	9.6585030	97	9.6617103	556	0.3382897	0	21
	30	9.6203508	459	9.6584740	97	9.6618769	556	0.3381231	0	20
40	0	9.6204884	458	9.6584450	97	9.6620434	556	0.3379566	0	20
	30	9.6206259	458	9.6584159	96	9.6622100	556	0.3377900	0	19
41	0	9.6207634	458	9.6583869	97	9.6623765	556	0.3376236	0	19
	30	9.6209008	458	9.6583579	96	9.6625430	556	0.3374571	0	18
42	0	9.6210382	457	9.6583288	96	9.6627095	556	0.3372907	0	18
	30	9.6211755	457	9.6582998	97	9.6628767	554	0.3371243	0	17
43	0	9.6213127	457	9.6582707	97	9.6630430	554	0.3369580	0	17
	30	9.6214499	457	9.6582416	97	9.6632083	554	0.3367917	0	16
44	0	9.6215871	457	9.6582125	97	9.6633745	554	0.3366255	0	16
	30	9.6217242	456	9.6581834	97	9.6635407	554	0.3364593	0	15
45	0	9.6218612	457	9.6581543	97	9.6637069	554	0.3362931	0	15
	30	9.6219982	456	9.6581252	97	9.6638730	554	0.3361270	0	14
46	0	9.6221351	457	9.6580961	98	9.6640391	553	0.3359609	0	14
	30	9.6222720	456	9.6580669	97	9.6642051	553	0.3357949	0	13
47	0	9.6224088	456	9.6580378	98	9.6643711	553	0.3356289	0	13
	30	9.6225456	456	9.6580086	97	9.6645370	553	0.3354630	0	12
48	0	9.6226824	455	9.6579794	97	9.6647030	552	0.3352970	0	12
	30	9.6228190	456	9.6579502	97	9.6648688	553	0.3351312	0	11
49	0	9.6229557	455	9.6579210	97	9.6650346	553	0.3349654	0	11
	30	9.6230922	456	9.6578918	97	9.6652004	553	0.3347996	0	10
50	0	9.6232287	455	9.6578626	98	9.6653662	552	0.3346338	0	10
	30	9.6233652	455	9.6578333	97	9.6655319	552	0.3344681	0	9
51	0	9.6235016	455	9.6578041	98	9.6656975	553	0.3343025	0	9
	30	9.6236380	454	9.6577748	97	9.6658632	552	0.3341368	0	8
52	0	9.6237743	454	9.6577456	98	9.6660288	551	0.3339712	0	8
	30	9.6239105	454	9.6577163	98	9.6661943	552	0.3338057	0	7
53	0	9.6240468	454	9.6576870	98	9.6663598	552	0.3336402	0	7
	30	9.6241829	454	9.6576577	98	9.6665253	551	0.3334747	0	6
54	0	9.6243190	454	9.6576284	98	9.6666907	551	0.3333093	0	6
	30	9.6244551	453	9.6575990	97	9.6668561	551	0.3331439	0	5
55	0	9.6245911	453	9.6575697	98	9.6670214	551	0.3329786	0	5
	30	9.6247270	453	9.6575404	98	9.6671867	551	0.3328133	0	4
56	0	9.6248629	453	9.6575110	98	9.6673519	551	0.3326481	0	4
	30	9.6249988	453	9.6574816	98	9.6675172	550	0.3324828	0	3
57	0	9.6251346	452	9.6574522	98	9.6676825	551	0.3323177	0	3
	30	9.6252703	453	9.6574228	98	9.6678475	550	0.3321525	0	2
58	0	9.6254060	452	9.6573934	98	9.6680126	550	0.3319874	0	2
	30	9.6255417	452	9.6573640	98	9.6681776	550	0.3318224	0	1
59	0	9.6256772	452	9.6573346	98	9.6683426	550	0.3316574	0	1
	30	9.6258128	451	9.6573052	99	9.6685076	550	0.3314924	0	0
60	0	9.6259483	10"	9.6572757	10"	9.6686726	10"	0.3313275	0	0
1	"	L. cosin.	diff.	L. sin.	d.	L. cotan.	diff.	L. tang.	"	1

65 deg.

°	'	l. sin.	diff. 10"	l. cosin.	d. 10"	l. tang.	d.f. 1"	l. cotan.	'	°
0	0	9.625483	451	9.972757	98	9.6686785	5 3	0.3313275	0	60
0	30	9.6260837	451	9.972463	98	9.6688374	5 3	0.3311626	30	
1	0	9.626191	451	9.972168	98	9.6690023	5 3	0.3309977	0	59
1	30	9.6263044	451	9.971873	98	9.6691671	5 3	0.3308329	30	
2	0	9.6264297	451	9.971578	98	9.6693319	5 3	0.3306681	0	58
2	30	9.6265499	451	9.971283	98	9.6694966	5 3	0.3305034	30	
3	0	9.6266701	450	9.970988	98	9.6696613	5 3	0.3303387	0	57
3	30	9.6267952	450	9.970693	98	9.6698260	5 3	0.3301740	30	
4	0	9.6269203	450	9.970397	98	9.6699906	5 3	0.3300094	0	56
4	30	9.6270453	450	9.970102	98	9.6701551	5 3	0.3298449	30	
5	0	9.6271703	450	9.969806	98	9.6703197	5 3	0.3296803	0	55
5	30	9.6272952	450	9.969510	98	9.6704842	5 3	0.3295158	30	
6	0	9.6274201	449	9.969215	98	9.6706486	5 3	0.3293514	0	54
6	30	9.6275449	449	9.968919	98	9.6708130	5 3	0.3291870	30	
7	0	9.6276697	449	9.968623	98	9.6709774	5 3	0.3290226	0	53
7	30	9.6277944	449	9.968326	98	9.6711417	5 3	0.3288583	30	
8	0	9.6279190	449	9.968030	98	9.6713060	5 3	0.3286940	0	52
8	30	9.6280437	448	9.967734	98	9.6714703	5 7	0.3285297	30	
9	0	9.6281682	449	9.967437	98	9.6716345	5 7	0.3283655	0	51
9	30	9.6282927	449	9.967141	98	9.6717987	5 7	0.3282013	30	
10	0	9.6284172	448	9.966844	98	9.6719628	5 7	0.3280372	0	50
10	30	9.6285416	448	9.966547	98	9.6721269	5 7	0.3278731	30	
11	0	9.6286660	447	9.966250	98	9.6722910	5 5	0.3277090	0	49
11	30	9.6287903	447	9.965953	98	9.6724550	5 5	0.3275450	30	
12	0	9.6289145	448	9.965656	98	9.6726190	5 5	0.3273810	0	48
12	30	9.6290387	448	9.965358	98	9.6727829	5 5	0.3272171	30	
13	0	9.6291629	447	9.965061	98	9.6729468	5 5	0.3270532	0	47
13	30	9.6292870	447	9.964764	100	9.6731107	5 5	0.3268893	30	
14	0	9.6294111	446	9.964466	98	9.6732745	5 5	0.3267255	0	46
14	30	9.6295351	446	9.964168	98	9.6734383	5 5	0.3265617	30	
15	0	9.6296590	447	9.963870	98	9.6736020	5 5	0.3263980	0	45
15	30	9.6297829	447	9.963572	98	9.6737657	5 5	0.3262343	30	
16	0	9.6299068	446	9.963274	98	9.6739294	5 5	0.3260706	0	44
16	30	9.6300306	446	9.962976	98	9.6740930	5 5	0.3259070	30	
17	0	9.6301543	446	9.962678	100	9.6742566	5 5	0.3257434	0	43
17	30	9.6302780	446	9.962379	98	9.6744201	5 5	0.3255799	30	
18	0	9.6304017	445	9.962081	100	9.6745836	5 5	0.3254164	0	42
18	30	9.6305253	445	9.961782	98	9.6747471	5 5	0.3252529	30	
19	0	9.6306489	445	9.961483	98	9.6749105	5 5	0.3250895	0	41
19	30	9.6307724	444	9.961185	100	9.6750739	5 4	0.3249261	30	
20	0	9.6308958	445	9.960886	100	9.6752372	5 4	0.3247628	0	40
20	30	9.6310192	445	9.960587	100	9.6754006	5 4	0.3245994	30	
21	0	9.6311426	444	9.960287	100	9.6755638	5 4	0.3244362	0	39
21	30	9.6312659	444	9.959988	98	9.6757271	5 4	0.3242730	30	
22	0	9.6313891	444	9.959689	100	9.6758903	5 3	0.3241097	0	38
22	30	9.6315123	444	9.959390	100	9.6760534	5 4	0.3239466	30	
23	0	9.6316355	443	9.959090	98	9.6762165	5 4	0.3237835	0	37
23	30	9.6317586	443	9.958790	98	9.6763796	5 4	0.3236204	30	
24	0	9.6318816	444	9.958490	100	9.6765426	5 4	0.3234574	0	36
24	30	9.6320046	443	9.958190	100	9.6767056	5 4	0.3232944	30	
25	0	9.6321276	443	9.957890	100	9.6768686	5 3	0.3231314	0	35
25	30	9.6322505	443	9.957590	100	9.6770316	5 3	0.3229685	30	
26	0	9.6323733	443	9.957290	100	9.6771944	5 3	0.3228056	0	34
26	30	9.6324961	443	9.956990	100	9.6773573	5 2	0.3226427	30	
27	0	9.6326189	442	9.956690	100	9.6775201	5 2	0.3224799	0	33
27	30	9.6327416	442	9.956390	100	9.6776828	5 2	0.3223172	30	
28	0	9.6328642	442	9.956090	101	9.6778456	5 2	0.3221544	0	32
28	30	9.6329868	442	9.955790	101	9.6780083	5 2	0.3219917	30	
29	0	9.6331094	442	9.955490	101	9.6781709	5 2	0.3218291	0	31
29	30	9.6332319	442	9.955190	101	9.6783336	5 2	0.3216666	30	
30	0	9.6333544	442	9.954890	101	9.6784961	1 1'	0.3215039	0	30
30	'	l. cosin.	diff.	l. sin.	d.	l. cotan.	d.f.	l. tang.	'	°

/	//	L. sin.	diff. 10"	L. cosin.	d. 10"	L. tang.	diff. 10"	L. cotan.	/
29	0	9.6339844	441	9.9548880	100	9.6784961	540	0.3016039	30
30	0	9.6341168	441	9.9548881	100	9.6786286	540	0.3015414	30
31	0	9.6342491	441	9.9548880	101	9.6787611	540	0.3014789	30
32	0	9.6343814	441	9.9548878	100	9.6788936	541	0.3014164	30
33	0	9.6345137	440	9.9548876	100	9.6790260	540	0.3013540	30
34	0	9.6346460	440	9.9548875	101	9.6791584	541	0.3012915	30
35	0	9.6347783	441	9.9548873	101	9.6792908	541	0.3012292	30
36	0	9.6349106	441	9.9548871	101	9.6794231	541	0.3011669	30
37	0	9.6350429	440	9.9548869	101	9.6795555	541	0.3011047	30
38	0	9.6351752	440	9.9548866	100	9.6796878	540	0.3010424	30
39	0	9.6353075	439	9.9548864	101	9.6798202	540	0.3009802	30
40	0	9.6354398	439	9.9548862	101	9.6799525	541	0.3009181	30
41	0	9.6355721	440	9.9548860	101	9.6800849	541	0.3008560	30
42	0	9.6357044	439	9.9548858	101	9.6802172	540	0.3007939	30
43	0	9.6358367	439	9.9548856	101	9.6803496	540	0.3007318	30
44	0	9.6359690	439	9.9548854	101	9.6804819	540	0.3006697	30
45	0	9.6361013	438	9.9548852	101	9.6806143	540	0.3006076	30
46	0	9.6362336	438	9.9548850	101	9.6807466	540	0.3005455	30
47	0	9.6363659	438	9.9548848	101	9.6808790	540	0.3004834	30
48	0	9.6364982	438	9.9548846	101	9.6810113	540	0.3004213	30
49	0	9.6366305	438	9.9548844	101	9.6811437	540	0.3003592	30
50	0	9.6367628	438	9.9548842	101	9.6812760	540	0.3002971	30
51	0	9.6368951	438	9.9548840	101	9.6814084	540	0.3002350	30
52	0	9.6370274	438	9.9548838	101	9.6815407	540	0.3001729	30
53	0	9.6371597	438	9.9548836	101	9.6816731	540	0.3001108	30
54	0	9.6372920	438	9.9548834	101	9.6818054	540	0.3000487	30
55	0	9.6374243	438	9.9548832	101	9.6819378	540	0.3000000	30
56	0	9.6375566	438	9.9548830	101	9.6820701	540	0.3000000	30
57	0	9.6376889	438	9.9548828	101	9.6822025	540	0.3000000	30
58	0	9.6378212	438	9.9548826	101	9.6823348	540	0.3000000	30
59	0	9.6379535	438	9.9548824	101	9.6824672	540	0.3000000	30
60	0	9.6380858	438	9.9548822	101	9.6825995	540	0.3000000	30
61	0	9.6382181	438	9.9548820	101	9.6827319	540	0.3000000	30
62	0	9.6383504	438	9.9548818	101	9.6828642	540	0.3000000	30
63	0	9.6384827	438	9.9548816	101	9.6829966	540	0.3000000	30
64	0	9.6386150	438	9.9548814	101	9.6831289	540	0.3000000	30
65	0	9.6387473	438	9.9548812	101	9.6832613	540	0.3000000	30
66	0	9.6388796	438	9.9548810	101	9.6833936	540	0.3000000	30
67	0	9.6390119	438	9.9548808	101	9.6835260	540	0.3000000	30
68	0	9.6391442	438	9.9548806	101	9.6836583	540	0.3000000	30
69	0	9.6392765	438	9.9548804	101	9.6837907	540	0.3000000	30
70	0	9.6394088	438	9.9548802	101	9.6839230	540	0.3000000	30
71	0	9.6395411	438	9.9548800	101	9.6840554	540	0.3000000	30
72	0	9.6396734	438	9.9548798	101	9.6841877	540	0.3000000	30
73	0	9.6398057	438	9.9548796	101	9.6843201	540	0.3000000	30
74	0	9.6399380	438	9.9548794	101	9.6844524	540	0.3000000	30
75	0	9.6400703	438	9.9548792	101	9.6845848	540	0.3000000	30
76	0	9.6402026	438	9.9548790	101	9.6847171	540	0.3000000	30
77	0	9.6403349	438	9.9548788	101	9.6848495	540	0.3000000	30
78	0	9.6404672	438	9.9548786	101	9.6849818	540	0.3000000	30
79	0	9.6405995	438	9.9548784	101	9.6851142	540	0.3000000	30
80	0	9.6407318	438	9.9548782	101	9.6852465	540	0.3000000	30
81	0	9.6408641	438	9.9548780	101	9.6853789	540	0.3000000	30
82	0	9.6409964	438	9.9548778	101	9.6855112	540	0.3000000	30
83	0	9.6411287	438	9.9548776	101	9.6856436	540	0.3000000	30
84	0	9.6412610	438	9.9548774	101	9.6857759	540	0.3000000	30
85	0	9.6413933	438	9.9548772	101	9.6859083	540	0.3000000	30
86	0	9.6415256	438	9.9548770	101	9.6860406	540	0.3000000	30
87	0	9.6416579	438	9.9548768	101	9.6861730	540	0.3000000	30
88	0	9.6417902	438	9.9548766	101	9.6863053	540	0.3000000	30
89	0	9.6419225	438	9.9548764	101	9.6864377	540	0.3000000	30
90	0	9.6420548	438	9.9548762	101	9.6865700	540	0.3000000	30
91	0	9.6421871	438	9.9548760	101	9.6867024	540	0.3000000	30
92	0	9.6423194	438	9.9548758	101	9.6868347	540	0.3000000	30
93	0	9.6424517	438	9.9548756	101	9.6869671	540	0.3000000	30
94	0	9.6425840	438	9.9548754	101	9.6870994	540	0.3000000	30
95	0	9.6427163	438	9.9548752	101	9.6872318	540	0.3000000	30
96	0	9.6428486	438	9.9548750	101	9.6873641	540	0.3000000	30
97	0	9.6429809	438	9.9548748	101	9.6874965	540	0.3000000	30
98	0	9.6431132	438	9.9548746	101	9.6876288	540	0.3000000	30
99	0	9.6432455	438	9.9548744	101	9.6877612	540	0.3000000	30
100	0	9.6433778	438	9.9548742	101	9.6878935	540	0.3000000	30

°	'	L. sin.	diff. 10"	L. cosin.	diff. 10"	L. tang.	diff. 10"	L. cotan.	diff. 10"	°
25	0	9.6495874	423	9.9517918	105	9.6775533	587	0.3022537	0	30
	30	9.6496541	422	9.9517577	105	9.6776194	587	0.3021556	30	29
	31	9.6497207	422	9.9517236	105	9.6776855	587	0.3020574	30	28
	32	9.6497873	422	9.9516895	105	9.6777516	587	0.3019594	30	27
	33	9.6498538	422	9.9516554	105	9.6778177	587	0.3018613	30	26
	34	9.6499203	422	9.9516213	105	9.6778838	587	0.3017633	30	25
	35	9.6499868	421	9.9515872	105	9.6779499	587	0.3016652	30	24
	36	9.6500533	421	9.9515531	105	9.6780160	587	0.3015672	30	23
	37	9.6501198	421	9.9515190	105	9.6780821	587	0.3014691	30	22
	38	9.6501863	421	9.9514849	105	9.6781482	587	0.3013711	30	21
	39	9.6502528	420	9.9514508	105	9.6782143	587	0.3012730	30	20
	40	9.6503193	420	9.9514167	105	9.6782804	587	0.3011750	30	19
	41	9.6503858	420	9.9513826	105	9.6783465	587	0.3010769	30	18
	42	9.6504523	420	9.9513485	105	9.6784126	587	0.3009789	30	17
	43	9.6505188	419	9.9513144	105	9.6784787	587	0.3008808	30	16
	44	9.6505853	419	9.9512803	105	9.6785448	587	0.3007828	30	15
	45	9.6506518	419	9.9512462	105	9.6786109	587	0.3006847	30	14
	46	9.6507183	418	9.9512121	105	9.6786770	587	0.3005867	30	13
	47	9.6507848	418	9.9511780	105	9.6787431	587	0.3004886	30	12
	48	9.6508513	418	9.9511439	105	9.6788092	587	0.3003906	30	11
	49	9.6509178	417	9.9511098	105	9.6788753	587	0.3002925	30	10
	50	9.6509843	417	9.9510757	105	9.6789414	587	0.3001945	30	9
	51	9.6510508	416	9.9510416	105	9.6790075	587	0.3000964	30	8
	52	9.6511173	416	9.9510075	105	9.6790736	587	0.2999984	30	7
	53	9.6511838	416	9.9509734	105	9.6791397	587	0.2999003	30	6
	54	9.6512503	415	9.9509393	105	9.6792058	587	0.2998023	30	5
	55	9.6513168	415	9.9509052	105	9.6792719	587	0.2997042	30	4
	56	9.6513833	415	9.9508711	105	9.6793380	587	0.2996062	30	3
	57	9.6514498	414	9.9508370	105	9.6794041	587	0.2995081	30	2
	58	9.6515163	414	9.9508029	105	9.6794702	587	0.2994101	30	1
	59	9.6515828	413	9.9507688	105	9.6795363	587	0.2993120	30	0
	60	9.6516493	413	9.9507347	105	9.6796024	587	0.2992140	30	0
			10"		10"		10"			
		L. cosin.	diff.	L. sin.	diff.	L. cotan.	diff.	L. tang.		

I	N	L. sin.	diff.	L. cosin.	d.	L. tang.	d f.	L. cotan.	N	I
—	—	—	10"	—	10"	—	1 "	—	—	—
0	0	9.6870468		9.9498830	107	9.7071659	51	0.8928341	0	60
0	30	9.6871707	413	9.9498847	107	9.7073220	51	0.8926780	0	30
1	0	9.6872946	413	9.9498865	107	9.7074781	51	0.8925219	0	59
1	30	9.6874185	418	9.9498883	108	9.7076342	51	0.8923658	0	30
2	0	9.6875423	418	9.9498901	108	9.7077902	51	0.8922098	0	58
2	30	9.6876661	418	9.9498918	107	9.7079462	51	0.8920538	0	30
3	0	9.6877900	418	9.9498936	108	9.7081022	51	0.8918978	0	57
3	30	9.6879138	418	9.9498953	107	9.7082582	51	0.8917418	0	30
4	0	9.6880371	418	9.9498970	107	9.7084141	51	0.8915858	0	56
4	30	9.6881607	418	9.9498988	108	9.7085700	51	0.8914291	0	30
5	0	9.6882844	418	9.9498998	108	9.7087258	51	0.8912742	0	55
5	30	9.6884077	418	9.9499016	108	9.7088816	51	0.8911184	0	30
6	0	9.6885312	411	9.9499038	107	9.7090374	51	0.8909626	0	54
6	30	9.6886546	411	9.9499051	108	9.7091931	51	0.8908069	0	30
7	0	9.6887780	411	9.9499069	108	9.7093488	51	0.8906512	0	53
7	30	9.6889013	411	9.9499086	108	9.7095046	51	0.8904955	0	30
8	0	9.6890246	411	9.9499104	108	9.7096601	51	0.8903399	0	52
8	30	9.6891478	411	9.9499121	108	9.7098158	51	0.8901842	0	30
9	0	9.6892710	411	9.9499139	108	9.7099713	51	0.8900287	0	51
9	30	9.6893942	410	9.9499157	108	9.7101269	51	0.8898731	0	30
10	0	9.6895173	410	9.9499174	108	9.7102824	51	0.8897176	0	50
10	30	9.6896403	410	9.9499192	109	9.7104379	51	0.8895621	0	30
11	0	9.6897633	410	9.9499210	108	9.7105933	51	0.8894067	0	49
11	30	9.6898863	410	9.9499227	108	9.7107487	51	0.8892513	0	30
12	0	9.6899993	409	9.9499245	108	9.7109041	51	0.8890959	0	48
12	30	9.6901221	410	9.9499262	109	9.7110595	51	0.8889405	0	30
13	0	9.6902450	409	9.9499280	109	9.7112148	51	0.8887852	0	47
13	30	9.6903678	409	9.9499297	109	9.7113701	51	0.8886299	0	30
14	0	9.6904905	409	9.9499315	109	9.7115254	51	0.8884746	0	46
14	30	9.6906132	409	9.9499332	109	9.7116806	51	0.8883194	0	30
15	0	9.6907359	409	9.9499350	108	9.7118358	51	0.8881642	0	45
15	30	9.6908585	409	9.9499367	109	9.7119909	51	0.8880091	0	30
16	0	9.6909811	409	9.9499385	108	9.7121461	51	0.8878539	0	44
16	30	9.6911036	409	9.9499402	109	9.7123012	51	0.8876988	0	30
17	0	9.6912262	408	9.9499420	108	9.7124562	51	0.8875438	0	43
17	30	9.6913486	408	9.9499437	108	9.7126112	51	0.8873888	0	30
18	0	9.6914710	408	9.9499454	108	9.7127662	51	0.8872338	0	42
18	30	9.6915933	408	9.9499471	108	9.7129212	51	0.8870788	0	30
19	0	9.6917157	407	9.9499489	109	9.7130761	51	0.8869239	0	41
19	30	9.6918379	408	9.9499506	109	9.7132311	51	0.8867689	0	30
20	0	9.6919602	407	9.9499524	109	9.7133859	51	0.8866141	0	40
20	30	9.6920823	408	9.9499541	109	9.7135408	51	0.8864592	0	30
21	0	9.6922048	407	9.9499559	109	9.7136956	51	0.8863044	0	39
21	30	9.6923269	407	9.9499576	109	9.7138503	51	0.8861497	0	30
22	0	9.6924493	407	9.9499593	109	9.7140051	51	0.8859949	0	38
22	30	9.6925716	407	9.9499610	109	9.7141598	51	0.8858402	0	30
23	0	9.6926940	407	9.9499628	109	9.7143145	51	0.8856855	0	37
23	30	9.6928163	407	9.9499645	109	9.7144691	51	0.8855309	0	30
24	0	9.6929386	407	9.9499662	109	9.7146237	51	0.8853763	0	36
24	30	9.6930608	407	9.9499680	109	9.7147783	51	0.8852217	0	30
25	0	9.6931830	406	9.9499697	110	9.7149329	51	0.8850671	0	35
25	30	9.6933051	406	9.9499714	109	9.7150874	51	0.8849126	0	30
26	0	9.6934273	406	9.9499731	109	9.7152419	51	0.8847581	0	34
26	30	9.6935495	405	9.9499748	109	9.7153964	51	0.8846036	0	30
27	0	9.6936718	405	9.9499765	109	9.7155508	51	0.8844492	0	33
27	30	9.6937939	408	9.9499782	110	9.7157052	51	0.8842948	0	30
28	0	9.6939160	405	9.9499799	110	9.7158595	51	0.8841405	0	32
28	30	9.6940381	405	9.9499816	110	9.7160139	51	0.8839861	0	30
29	0	9.6941602	405	9.9499833	110	9.7161682	51	0.8838318	0	31
29	30	9.6942823	408	9.9499850	110	9.7163224	51	0.8836776	0	30
30	0	9.6944045		9.9499868		9.7164767	1 "	0.8835233	0	30
I	N	L. cosin.	diff.	L. sin.	d.	L. cotan.	d f.	L. tang.	N	I

°	'	l. sin.	dif.	l. cosin.	d.	l. tang.	d.	l. cotan.	"	°	'
0	0	9.688718	380	9.9418153	117	9.7437820	496	0.2564480	0	60	0
	30	9.688658	379	9.9417948	116	9.7437000	497	0.2565001	30		
1	0	9.6885991	379	9.9417702	117	9.7440400	496	0.2565501	0	59	0
	30	9.6885397	380	9.9417456	117	9.7441087	497	0.2566013	30		
2	0	9.6884807	380	9.9417209	117	9.7443476	496	0.2566504	0	58	0
	30	9.6884215	379	9.9416964	116	9.7444005	496	0.2566995	30		
3	0	9.6883624	380	9.9416719	117	9.7444545	496	0.2567487	0	57	0
	30	9.6883032	379	9.9416473	117	9.7447941	496	0.2567978	30		
4	0	9.6882441	379	9.9416228	117	9.7449481	496	0.2568469	0	56	0
	30	9.6881849	379	9.9415983	118	9.7450916	496	0.2568960	30		
5	0	9.6881258	379	9.9415738	117	9.7452403	496	0.2569451	0	55	0
	30	9.6880666	378	9.9415493	117	9.7453890	495	0.2569942	30		
6	0	9.6880075	378	9.9415248	117	9.7455376	495	0.2570433	0	54	0
	30	9.6879483	378	9.9415003	118	9.7456863	495	0.2570924	30		
7	0	9.6878892	378	9.9414758	117	9.7458349	495	0.2571415	0	53	0
	30	9.6878300	378	9.9414513	117	9.7459834	495	0.2571906	30		
8	0	9.6877709	378	9.9414268	117	9.7461320	495	0.2572397	0	52	0
	30	9.6877117	378	9.9414023	117	9.7462805	495	0.2572888	30		
9	0	9.6876526	377	9.9413778	118	9.7464290	495	0.2573379	0	51	0
	30	9.6875934	378	9.9413533	117	9.7465775	495	0.2573870	30		
10	0	9.6875343	377	9.9413288	118	9.7467260	495	0.2574361	0	50	0
	30	9.6874751	377	9.9413043	118	9.7468745	495	0.2574852	30		
11	0	9.6874160	377	9.9412798	118	9.7470230	495	0.2575343	0	49	0
	30	9.6873568	377	9.9412553	118	9.7471715	494	0.2575834	30		
12	0	9.6872977	377	9.9412308	118	9.7473200	495	0.2576325	0	48	0
	30	9.6872385	377	9.9412063	118	9.7474685	495	0.2576816	30		
13	0	9.6871794	377	9.9411818	118	9.7476170	494	0.2577307	0	47	0
	30	9.6871202	376	9.9411573	117	9.7477655	494	0.2577798	30		
14	0	9.6870611	376	9.9411328	118	9.7479140	494	0.2578289	0	46	0
	30	9.6870019	376	9.9411083	118	9.7480625	494	0.2578780	30		
15	0	9.6869428	376	9.9410838	117	9.7482110	494	0.2579271	0	45	0
	30	9.6868836	376	9.9410593	118	9.7483595	494	0.2579762	30		
16	0	9.6868245	376	9.9410348	118	9.7485080	493	0.2580253	0	44	0
	30	9.6867653	376	9.9410103	119	9.7486565	493	0.2580744	30		
17	0	9.6867062	376	9.9409858	119	9.7488050	493	0.2581235	0	43	0
	30	9.6866470	376	9.9409613	118	9.7489535	493	0.2581726	30		
18	0	9.6865879	376	9.9409368	118	9.7491020	493	0.2582217	0	42	0
	30	9.6865287	376	9.9409123	118	9.7492505	493	0.2582708	30		
19	0	9.6864696	376	9.9408878	119	9.7493990	493	0.2583199	0	41	0
	30	9.6864104	376	9.9408633	118	9.7495475	493	0.2583690	30		
20	0	9.6863513	376	9.9408388	118	9.7496960	493	0.2584181	0	40	0
	30	9.6862921	376	9.9408143	119	9.7498445	493	0.2584672	30		
21	0	9.6862330	376	9.9407898	119	9.7499930	493	0.2585163	0	39	0
	30	9.6861738	376	9.9407653	118	9.7501415	493	0.2585654	30		
22	0	9.6861147	376	9.9407408	118	9.7502900	493	0.2586145	0	38	0
	30	9.6860555	376	9.9407163	118	9.7504385	492	0.2586636	30		
23	0	9.6859964	376	9.9406918	119	9.7505870	492	0.2587127	0	37	0
	30	9.6859372	376	9.9406673	119	9.7507355	492	0.2587618	30		
24	0	9.6858781	376	9.9406428	119	9.7508840	492	0.2588109	0	36	0
	30	9.6858189	376	9.9406183	119	9.7510325	492	0.2588600	30		
25	0	9.6857598	376	9.9405938	118	9.7511810	492	0.2589091	0	35	0
	30	9.6857006	376	9.9405693	119	9.7513295	492	0.2589582	30		
26	0	9.6856415	376	9.9405448	118	9.7514780	492	0.2590073	0	34	0
	30	9.6855823	376	9.9405203	118	9.7516265	492	0.2590564	30		
27	0	9.6855232	376	9.9404958	119	9.7517750	492	0.2591055	0	33	0
	30	9.6854640	376	9.9404713	119	9.7519235	492	0.2591546	30		
28	0	9.6854049	376	9.9404468	119	9.7520720	492	0.2592037	0	32	0
	30	9.6853457	376	9.9404223	119	9.7522205	491	0.2592528	30		
29	0	9.6852866	378	9.9403978	119	9.7523690	491	0.2593019	0	31	0
	30	9.6852274	378	9.9403733	119	9.7525175	491	0.2593510	30		
30	0	9.6851683	378	9.9403488	119	9.7526660	491	0.2594001	0	30	0
10"		10"		10"		10"		10"		10"	
1	"	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	"	1	"

<i>i</i>	<i>n</i>	<i>l. sin.</i>	<i>diff.</i> 10''	<i>l. cosin.</i>	<i>d.</i> 10''	<i>l. tang.</i>	<i>diff.</i> 10''	<i>l. cotan.</i>	<i>i</i>	<i>n</i>
30	0	9.6923388	378	9.9396608	119	9.7826480	498	0.2472880	0	30
	30	9.6924504	378	9.9396610	119	9.7826484	491	0.2472883	0	30
31	0	9.6925620	378	9.9396612	119	9.7826488	491	0.2472886	0	29
	30	9.6926736	378	9.9396614	119	9.7826491	491	0.2472889	0	29
32	0	9.6927851	378	9.9396617	119	9.7826494	491	0.2472892	0	28
	30	9.6928966	378	9.9396619	119	9.7826497	491	0.2472895	0	28
33	0	9.6930080	371	9.9396621	119	9.7826500	491	0.2472898	0	27
	30	9.6931194	371	9.9396623	119	9.7826503	491	0.2472901	0	27
34	0	9.6932308	371	9.9396625	119	9.7826506	490	0.2472904	0	26
	30	9.6933421	371	9.9396627	119	9.7826509	491	0.2472907	0	26
	30	9.6934534	371	9.9396629	119	9.7826512	490	0.2472910	0	25
35	0	9.6935646	371	9.9396631	119	9.7826515	490	0.2472913	0	25
	30	9.6936758	371	9.9396633	119	9.7826518	490	0.2472916	0	24
36	0	9.6937870	371	9.9396635	119	9.7826521	490	0.2472919	0	24
	30	9.6938981	371	9.9396637	119	9.7826524	490	0.2472922	0	23
37	0	9.6940092	371	9.9396639	119	9.7826527	490	0.2472925	0	23
	30	9.6941203	370	9.9396641	119	9.7826530	490	0.2472928	0	22
38	0	9.6942313	370	9.9396643	119	9.7826533	490	0.2472931	0	22
	30	9.6943423	370	9.9396645	119	9.7826536	489	0.2472934	0	21
39	0	9.6944533	369	9.9396647	119	9.7826539	489	0.2472937	0	21
	30	9.6945643	369	9.9396649	119	9.7826542	489	0.2472940	0	20
40	0	9.6946754	369	9.9396651	119	9.7826545	489	0.2472943	0	20
	30	9.6947864	369	9.9396653	119	9.7826548	489	0.2472946	0	19
41	0	9.6948974	369	9.9396655	119	9.7826551	489	0.2472949	0	19
	30	9.6950084	369	9.9396657	119	9.7826554	489	0.2472952	0	18
42	0	9.6951194	369	9.9396659	119	9.7826557	489	0.2472955	0	18
	30	9.6952304	369	9.9396661	119	9.7826560	489	0.2472958	0	17
43	0	9.6953414	369	9.9396663	119	9.7826563	489	0.2472961	0	17
	30	9.6954524	369	9.9396665	119	9.7826566	489	0.2472964	0	16
44	0	9.6955634	369	9.9396667	119	9.7826569	489	0.2472967	0	16
	30	9.6956744	368	9.9396669	119	9.7826572	489	0.2472970	0	15
45	0	9.6957854	368	9.9396671	119	9.7826575	489	0.2472973	0	15
	30	9.6958964	368	9.9396673	119	9.7826578	489	0.2472976	0	14
46	0	9.6960074	368	9.9396675	119	9.7826581	489	0.2472979	0	14
	30	9.6961184	368	9.9396677	119	9.7826584	489	0.2472982	0	13
47	0	9.6962294	368	9.9396679	119	9.7826587	489	0.2472985	0	13
	30	9.6963404	368	9.9396681	119	9.7826590	489	0.2472988	0	12
48	0	9.6964514	368	9.9396683	119	9.7826593	489	0.2472991	0	12
	30	9.6965624	368	9.9396685	119	9.7826596	489	0.2472994	0	11
49	0	9.6966734	368	9.9396687	119	9.7826599	489	0.2472997	0	11
	30	9.6967844	368	9.9396689	119	9.7826602	489	0.2472999	0	10
50	0	9.6968954	367	9.9396691	119	9.7826605	489	0.2473002	0	10
	30	9.6970064	367	9.9396693	119	9.7826608	489	0.2473005	0	9
51	0	9.6971174	367	9.9396695	119	9.7826611	489	0.2473008	0	9
	30	9.6972284	367	9.9396697	119	9.7826614	489	0.2473011	0	8
52	0	9.6973394	366	9.9396699	119	9.7826617	489	0.2473014	0	8
	30	9.6974504	366	9.9396701	119	9.7826620	489	0.2473017	0	7
53	0	9.6975614	366	9.9396703	119	9.7826623	489	0.2473020	0	7
	30	9.6976724	366	9.9396705	119	9.7826626	489	0.2473023	0	6
54	0	9.6977834	366	9.9396707	119	9.7826629	489	0.2473026	0	6
	30	9.6978944	366	9.9396709	119	9.7826632	489	0.2473029	0	5
55	0	9.6980054	365	9.9396711	119	9.7826635	489	0.2473032	0	5
	30	9.6981164	365	9.9396713	119	9.7826638	489	0.2473035	0	4
56	0	9.6982274	365	9.9396715	119	9.7826641	489	0.2473038	0	4
	30	9.6983384	365	9.9396717	119	9.7826644	489	0.2473041	0	3
57	0	9.6984494	365	9.9396719	119	9.7826647	489	0.2473044	0	3
	30	9.6985604	365	9.9396721	119	9.7826650	489	0.2473047	0	2
58	0	9.6986714	365	9.9396723	119	9.7826653	489	0.2473050	0	2
	30	9.6987824	365	9.9396725	119	9.7826656	489	0.2473053	0	1
59	0	9.6988934	365	9.9396727	119	9.7826659	489	0.2473056	0	1
	30	9.6990044	365	9.9396729	119	9.7826662	489	0.2473059	0	0
60	0	9.6991154	365	9.9396731	119	9.7826665	489	0.2473062	0	0
	30	9.6992264	365	9.9396733	119	9.7826668	489	0.2473065	0	0
		10''		10''		10''		10''		
		<i>l. cosin.</i>	<i>diff.</i>	<i>l. sin.</i>	<i>d.</i>	<i>l. cotan.</i>	<i>diff.</i>	<i>l. tang.</i>		

30 deg.

"	"	l. sin.	dif.	l. cosin.	d.	l. tang.	dif.	l. cotan.	"	"
		10'		10'			10'			
0	0	0.6989700	265	0.9376305	121	9.7614394	485	0.2385505	0	60
1	0	0.6990794	264	0.9374948	120	9.7615858	487	0.2384148	0	59
2	0	0.6991837	265	0.9374077	120	9.7617311	486	0.2382839	0	58
3	0	0.6992931	264	0.9373182	120	9.7618769	485	0.2381521	0	57
4	0	0.6994073	265	0.9372347	120	9.7620227	485	0.2379773	0	56
5	0	0.6995166	264	0.9371481	121	9.7621684	486	0.2378316	0	55
6	0	0.6996258	264	0.9370516	120	9.7623142	485	0.2376858	0	54
7	0	0.6997349	264	0.9370761	120	9.7624599	485	0.2375401	0	53
8	0	0.6998441	263	0.9370085	120	9.7626056	485	0.2373944	0	52
9	0	0.6999532	263	0.9370219	120	9.7627513	485	0.2372487	0	51
10	0	0.7000622	264	0.9371653	120	9.7628969	485	0.2371031	0	50
11	0	0.7001713	263	0.9371887	120	9.7630425	485	0.2369575	0	49
12	0	0.7002802	264	0.9370921	120	9.7631881	485	0.2368119	0	48
13	0	0.7003892	263	0.9370055	120	9.7633337	485	0.2366663	0	47
14	0	0.7004981	263	0.9370189	120	9.7634792	485	0.2365208	0	46
15	0	0.7006070	263	0.9369822	120	9.7636247	485	0.2363753	0	45
16	0	0.7007158	263	0.9369455	120	9.7637702	485	0.2362298	0	44
17	0	0.7008246	263	0.9369089	120	9.7639157	485	0.2360843	0	43
18	0	0.7009334	262	0.9368722	120	9.7640612	484	0.2359388	0	42
19	0	0.7010421	262	0.9368355	122	9.7642066	485	0.2357934	0	41
20	0	0.7011508	262	0.9367988	122	9.7643520	485	0.2356480	0	40
21	0	0.7012595	262	0.9367621	122	9.7644974	484	0.2355026	0	39
22	0	0.7013681	262	0.9367254	123	9.7646427	485	0.2353573	0	38
23	0	0.7014767	261	0.9366886	123	9.7647881	484	0.2352119	0	37
24	0	0.7015852	262	0.9366519	123	9.7649334	484	0.2350666	0	36
25	0	0.7016937	262	0.9366151	123	9.7650786	484	0.2349214	0	35
26	0	0.7018022	261	0.9365783	123	9.7652239	484	0.2347761	0	34
27	0	0.7019106	262	0.9365415	123	9.7653691	484	0.2346308	0	33
28	0	0.7020190	262	0.9365047	123	9.7655143	484	0.2344857	0	32
29	0	0.7021274	261	0.9364679	123	9.7656595	484	0.2343405	0	31
30	0	0.7022357	261	0.9364311	123	9.7658047	484	0.2341953	0	30
31	0	0.7023440	261	0.9363942	123	9.7659498	484	0.2340502	0	29
32	0	0.7024523	261	0.9363574	123	9.7660949	484	0.2339050	0	28
33	0	0.7025605	261	0.9363205	123	9.7662400	484	0.2337600	0	27
34	0	0.7026687	260	0.9362836	123	9.7663851	483	0.2336149	0	26
35	0	0.7027768	261	0.9362467	123	9.7665301	484	0.2334699	0	25
36	0	0.7028849	261	0.9362098	123	9.7666751	484	0.2333249	0	24
37	0	0.7029930	260	0.9361729	123	9.7668201	484	0.2331799	0	23
38	0	0.7031011	260	0.9361360	124	9.7669651	483	0.2330349	0	22
39	0	0.7032091	260	0.9360990	123	9.7671101	483	0.2328899	0	21
40	0	0.7033170	260	0.9360621	124	9.7672550	483	0.2327450	0	20
41	0	0.7034250	260	0.9360251	123	9.7674000	483	0.2326001	0	19
42	0	0.7035329	260	0.9359881	123	9.7675448	482	0.2324552	0	18
43	0	0.7036407	260	0.9359511	123	9.7676896	483	0.2323104	0	17
44	0	0.7037486	260	0.9359141	123	9.7678344	483	0.2321655	0	16
45	0	0.7038563	260	0.9358771	123	9.7679792	483	0.2320208	0	15
46	0	0.7039641	260	0.9358401	124	9.7681240	483	0.2318760	0	14
47	0	0.7040718	260	0.9358030	123	9.7682688	482	0.2317312	0	13
48	0	0.7041795	260	0.9357660	124	9.7684135	482	0.2315865	0	12
49	0	0.7042871	260	0.9357289	123	9.7685582	483	0.2314418	0	11
50	0	0.7043947	260	0.9356918	123	9.7687029	482	0.2312971	0	10
51	0	0.7045023	260	0.9356548	124	9.7688476	482	0.2311524	0	9
52	0	0.7046099	260	0.9356177	124	9.7689922	482	0.2310077	0	8
53	0	0.7047174	260	0.9355806	123	9.7691368	482	0.2308632	0	7
54	0	0.7048248	260	0.9355434	124	9.7692814	482	0.2307186	0	6
55	0	0.7049323	260	0.9355063	124	9.7694260	482	0.2305740	0	5
56	0	0.7050397	260	0.9354691	124	9.7695705	482	0.2304295	0	4
57	0	0.7051472	260	0.9354320	124	9.7697151	481	0.2302849	0	3
58	0	0.7052546	260	0.9353948	124	9.7698596	481	0.2301404	0	2
59	0	0.7053616	260	0.9353576	124	9.7700040	482	0.2300000	0	1
60	0	0.7054689	260	0.9353204	124	9.7701485	482	0.2298555	0	0
"	"	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	"	"
		10'		10'			10'			

59 deg.

31 deg.

"	L. sin.	diff. 10"	L. cosin.	d. 10"	L. tang.	diff. 10"	L. cotan.	"
30	0.7188851	344	0.6937658	129	0.7873193	475	0.2126337	0 30
30	0.7188882	345	0.6937771	129	0.7874611	476	0.2125390	0 30
31	0.7188918	345	0.6937883	129	0.7876028	476	0.2124443	0 29
30	0.7188948	345	0.6937996	129	0.7877446	477	0.2123496	0 30
30	0.7188977	344	0.6938109	130	0.7878863	477	0.2122549	0 28
30	0.7189001	343	0.6938221	129	0.7880280	478	0.2121602	0 30
33	0.7189030	344	0.6938333	129	0.7881696	478	0.2120655	0 27
30	0.7189058	344	0.6938446	129	0.7883113	478	0.2119708	0 30
34	0.7189086	343	0.6938557	129	0.7884529	478	0.2118761	0 26
30	0.7190114	343	0.6938669	129	0.7885946	478	0.2117814	0 30
35	0.7191148	342	0.6938781	130	0.7887361	478	0.2116867	0 25
30	0.7191169	342	0.6938892	130	0.7888777	478	0.2115920	0 30
36	0.7191196	342	0.6939004	130	0.7890192	478	0.2114973	0 24
30	0.7191223	342	0.6939115	129	0.7891607	478	0.2114026	0 30
37	0.7191249	342	0.6939226	129	0.7893022	478	0.2113079	0 23
30	0.7191276	342	0.6939337	129	0.7894437	478	0.2112132	0 30
38	0.7191300	342	0.6939448	129	0.7895852	478	0.2111185	0 22
30	0.7191326	341	0.6939559	130	0.7897266	478	0.2110238	0 30
39	0.7191350	340	0.6939670	130	0.7898681	478	0.2109291	0 21
30	0.7200376	342	0.6939781	130	0.7900095	478	0.2108344	0 30
40	0.7200399	342	0.6939892	130	0.7901508	478	0.2107397	0 20
30	0.7200423	341	0.6939901	130	0.7902922	478	0.2106450	0 30
41	0.7200447	341	0.6940012	130	0.7904335	478	0.2105503	0 19
30	0.7200470	341	0.6940122	130	0.7905748	478	0.2104556	0 30
42	0.7200493	341	0.6940232	131	0.7907161	478	0.2103609	0 18
30	0.7200515	341	0.6940341	130	0.7908574	478	0.2102662	0 30
43	0.7200538	340	0.6940451	130	0.7909987	478	0.2101715	0 17
30	0.7200560	340	0.6940561	131	0.7911399	478	0.2100768	0 30
44	0.7200581	341	0.6940670	130	0.7912811	478	0.2100821	0 16
30	0.7210602	341	0.6940779	130	0.7914223	478	0.2100874	0 30
45	0.7211623	341	0.6940888	131	0.7915635	478	0.2100927	0 15
30	0.7211644	340	0.6940997	131	0.7917046	478	0.2100980	0 30
46	0.7211664	340	0.6941106	131	0.7918458	478	0.2101033	0 14
30	0.7211684	340	0.6941215	130	0.7919869	478	0.2101086	0 30
47	0.7211704	339	0.6941324	130	0.7921280	478	0.2101139	0 13
30	0.7211723	340	0.6941433	131	0.7922691	478	0.2101192	0 30
48	0.7211744	339	0.6941541	131	0.7924101	478	0.2101245	0 12
30	0.7211763	340	0.6941650	130	0.7925511	478	0.2101298	0 30
49	0.7211779	339	0.6941757	130	0.7926921	478	0.2101351	0 11
30	0.7220797	339	0.6941865	130	0.7928331	478	0.2101404	0 30
50	0.7221814	339	0.6941973	130	0.7929741	478	0.2101457	0 10
30	0.7221832	339	0.6942081	131	0.7931150	478	0.2101510	0 30
51	0.7221848	339	0.6942189	131	0.7932560	478	0.2101563	0 9
30	0.7221865	339	0.6942296	131	0.7933969	478	0.2101616	0 30
52	0.7221881	339	0.6942404	131	0.7935378	478	0.2101669	0 8
30	0.7221897	339	0.6942511	131	0.7936786	478	0.2101722	0 30
53	0.7221913	338	0.6942618	131	0.7938195	478	0.2101775	0 7
30	0.7221929	339	0.6942725	131	0.7939603	478	0.2101828	0 30
54	0.7221943	338	0.6942832	131	0.7941011	478	0.2101881	0 6
30	0.7221958	338	0.6942939	131	0.7942419	478	0.2101934	0 30
55	0.7231972	338	0.6943045	131	0.7943827	478	0.2101987	0 5
30	0.7231988	338	0.6943152	131	0.7945234	478	0.2102040	0 30
56	0.7231999	338	0.6943258	131	0.7946641	478	0.2102093	0 4
30	0.7232013	338	0.6943365	131	0.7948048	478	0.2102146	0 30
57	0.7232026	338	0.6943471	132	0.7949455	478	0.2102199	0 3
30	0.7232039	337	0.6943577	132	0.7950862	478	0.2102252	0 30
58	0.7232051	337	0.6943683	132	0.7952269	478	0.2102305	0 2
30	0.7232063	337	0.6943789	131	0.7953676	478	0.2102358	0 30
59	0.7242075	337	0.6943894	131	0.7955083	478	0.2102411	0 1
30	0.7242086	337	0.6943999	131	0.7956489	478	0.2102464	0 30
60	0.7242097		0.6944105		0.7957896		0.2102517	0 0
"	L. cosin.	diff. 10"	L. sin.	d. 10"	L. cotan.	diff. 10"	L. tang.	"

58 deg.

32 deg.

l	"	l. sin.	dif. 10"	l. cosin.	d. 10"	l. tang.	dif. 10"	l. cotan.	"	l
0	0	9.740007	337	9.9284205	132	9.7577892	462	0.2042108	0	60
0	10	9.7403108	337	9.9283818	132	9.7577298	463	0.2040702	30	
1	0	9.7406118	337	9.9283416	131	9.7576703	468	0.2039297	0	59
1	10	9.7409128	337	9.9283000	132	9.7576108	468	0.2037892	30	
2	0	9.7412138	336	9.9282625	132	9.7575513	468	0.2036487	0	58
2	10	9.7415147	337	9.9282230	132	9.7574918	468	0.2035082	30	
3	0	9.7418156	337	9.9281834	132	9.7574322	468	0.2033678	0	57
3	10	9.7421165	336	9.9281433	132	9.7573726	468	0.2032274	30	
4	0	9.7424174	336	9.9281045	132	9.7573130	468	0.2030870	0	56
4	10	9.7427182	336	9.9280647	132	9.7572534	468	0.2029466	30	
5	0	9.7430189	336	9.9280251	132	9.7571938	468	0.2028062	0	55
5	10	9.7433197	336	9.9279855	132	9.7571341	469	0.2026659	30	
6	0	9.7436204	336	9.9279459	132	9.7570745	467	0.2025255	0	54
6	10	9.7439211	336	9.9279063	132	9.7570148	467	0.2023852	30	
7	0	9.7442217	336	9.9278666	132	9.7569551	467	0.2022449	0	53
7	10	9.7445223	336	9.9278270	132	9.7568953	468	0.2021047	30	
8	0	9.7448229	336	9.9277873	132	9.7568356	467	0.2019644	0	52
8	10	9.7451235	336	9.9277476	132	9.7567758	468	0.2018242	30	
9	0	9.7454240	336	9.9277079	132	9.7567160	468	0.2016840	0	51
9	10	9.7457245	334	9.9276682	132	9.7566562	467	0.2015438	30	
10	0	9.7460249	336	9.9276285	132	9.7565964	467	0.2014036	0	50
10	10	9.7463253	336	9.9275888	133	9.7565365	467	0.2012635	30	
11	0	9.7466257	336	9.9275490	132	9.7564767	467	0.2011233	0	49
11	10	9.7469261	334	9.9275093	132	9.7564168	467	0.2009832	30	
12	0	9.7472264	334	9.9274695	132	9.7563569	467	0.2008431	0	48
12	10	9.7475267	334	9.9274297	132	9.7562969	467	0.2007031	30	
13	0	9.7478269	334	9.9273899	132	9.7562370	467	0.2005630	0	47
13	10	9.7481272	334	9.9273501	132	9.7561770	467	0.2004230	30	
14	0	9.7484273	334	9.9273103	133	9.7561170	467	0.2002830	0	46
14	10	9.7487275	334	9.9272705	133	9.7560570	467	0.2001430	30	
15	0	9.7490276	334	9.9272306	133	9.7559970	467	0.2000030	0	45
15	10	9.7493277	334	9.9271908	133	9.7559370	466	0.1998630	30	
16	0	9.7496278	333	9.9271509	133	9.7558769	467	0.1997231	0	44
16	10	9.7499278	334	9.9271110	133	9.7558168	467	0.1995832	30	
17	0	9.7502278	333	9.9270711	133	9.7557567	467	0.1994433	0	43
17	10	9.7505278	333	9.9270312	133	9.7556966	466	0.1993034	30	
18	0	9.7508277	333	9.9269913	134	9.7556365	466	0.1991635	0	42
18	10	9.7511276	333	9.9269513	133	9.7555763	466	0.1990237	30	
19	0	9.7514275	333	9.9269114	133	9.7555161	466	0.1988839	0	41
19	10	9.7517273	333	9.9268714	133	9.7554559	466	0.1987441	30	
20	0	9.7520271	333	9.9268314	133	9.7553957	466	0.1986043	0	40
20	10	9.7523269	333	9.9267914	133	9.7553355	466	0.1984645	30	
21	0	9.7526267	332	9.9267514	133	9.7552752	466	0.1983248	0	39
21	10	9.7529264	332	9.9267114	133	9.7552149	466	0.1981851	30	
22	0	9.7532260	333	9.9266714	134	9.7551546	466	0.1980454	0	38
22	10	9.7535257	332	9.9266314	134	9.7550943	466	0.1979057	30	
23	0	9.7538253	332	9.9265913	134	9.7550340	465	0.1977660	0	37
23	10	9.7541249	332	9.9265512	134	9.7549736	466	0.1976264	30	
24	0	9.7544244	332	9.9265112	133	9.7549133	465	0.1974867	0	36
24	10	9.7547239	332	9.9264711	134	9.7548529	465	0.1973471	30	
25	0	9.7550234	332	9.9264310	134	9.7547925	465	0.1972075	0	35
25	10	9.7553229	331	9.9263908	133	9.7547320	466	0.1970680	30	
26	0	9.7556223	331	9.9263507	134	9.7546716	465	0.1969284	0	34
26	10	9.7559217	331	9.9263106	134	9.7546111	465	0.1967889	30	
27	0	9.7562211	331	9.9262704	134	9.7545506	465	0.1966494	0	33
27	10	9.7565204	331	9.9262302	134	9.7544901	465	0.1965099	30	
28	0	9.7568197	331	9.9261901	134	9.7544296	465	0.1963704	0	32
28	10	9.7571189	331	9.9261499	134	9.7543691	465	0.1962309	30	
29	0	9.7574182	330	9.9261096	134	9.7543085	465	0.1960915	0	31
29	10	9.7577174	330	9.9260694	134	9.7542479	465	0.1959521	30	
30	0	9.7580165	10"	9.9260292	10"	9.7541873	10"	0.1958127	0	30
l	"	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	"	l

57 deg.

22

l.	l. sin.	diff.	l. cosin.	diff.	l. tang.	diff.	l. cotan.	"	l.
1	10'	10'	10'	10'	10'	10'	10'	1	1
30	0.7301165	331	9.9860298	134	9.8041873	466	0.1959127	0	30
31	0.7303187	330	9.9859889	134	9.8043267	465	0.1960733	30	29
32	0.7305148	330	9.9859487	134	9.8044661	464	0.1962339	0	28
33	0.7307058	330	9.9859084	134	9.8046054	465	0.1963945	30	27
34	0.7308919	330	9.9858681	134	9.8047447	465	0.1965551	0	26
35	0.7310719	330	9.9858278	134	9.8048841	464	0.1967156	30	25
36	0.7312460	329	9.9857875	134	9.8050233	465	0.1968762	0	24
37	0.7314140	330	9.9857472	135	9.8051626	464	0.1970367	30	23
38	0.7315760	330	9.9857069	135	9.8053019	464	0.1971972	0	22
39	0.7317320	329	9.9856666	135	9.8054411	464	0.1973577	30	21
40	0.7318830	330	9.9856261	134	9.8055803	464	0.1975182	0	20
41	0.7320290	329	9.9855858	135	9.8057195	463	0.1976787	30	19
42	0.7321700	330	9.9855454	135	9.8058587	464	0.1978392	0	18
43	0.7323060	330	9.9855050	135	9.8059978	464	0.1979997	30	17
44	0.7324370	329	9.9854646	135	9.8061370	463	0.1981602	0	16
45	0.7325630	330	9.9854241	135	9.8062761	463	0.1983207	30	15
46	0.7326840	328	9.9853837	135	9.8064152	463	0.1984812	0	14
47	0.7328000	330	9.9853432	135	9.8065543	463	0.1986417	30	13
48	0.7329110	328	9.9853028	135	9.8066934	464	0.1988022	0	12
49	0.7330170	329	9.9852623	135	9.8068324	463	0.1989627	30	11
50	0.7331190	330	9.9852218	135	9.8069714	463	0.1991232	0	10
51	0.7332160	328	9.9851813	135	9.8071104	463	0.1992837	30	9
52	0.7333090	330	9.9851408	135	9.8072494	463	0.1994442	0	8
53	0.7333980	328	9.9851002	135	9.8073884	463	0.1996047	30	7
54	0.7334830	330	9.9850597	135	9.8075273	463	0.1997652	0	6
55	0.7335640	327	9.9850191	135	9.8076662	463	0.1999257	30	5
56	0.7336410	328	9.9849786	135	9.8078052	463	0.2000862	0	4
57	0.7337140	330	9.9849380	135	9.8079441	462	0.2002467	30	3
58	0.7337830	328	9.9848974	135	9.8080829	463	0.2004072	0	2
59	0.7338480	327	9.9848568	135	9.8082218	463	0.2005677	30	1
60	0.7339090	327	9.9848161	135	9.8083606	463	0.2007282	0	0
61	0.7339660	327	9.9847755	135	9.8084995	462	0.2008887	30	0
62	0.7340190	327	9.9847349	135	9.8086383	462	0.2010492	0	0
63	0.7340680	327	9.9846942	135	9.8087770	463	0.2012097	30	0
64	0.7341130	327	9.9846535	135	9.8089158	463	0.2013702	0	0
65	0.7341540	327	9.9846128	135	9.8090546	462	0.2015307	30	0
66	0.7341910	327	9.9845721	135	9.8091933	462	0.2016912	0	0
67	0.7342240	327	9.9845314	135	9.8093320	462	0.2018517	30	0
68	0.7342530	327	9.9844907	135	9.8094707	462	0.2020122	0	0
69	0.7342780	327	9.9844500	135	9.8096094	462	0.2021727	30	0
70	0.7342990	327	9.9844092	135	9.8097480	462	0.2023332	0	0
71	0.7343160	325	9.9843684	135	9.8098867	462	0.2024937	30	0
72	0.7343290	325	9.9843277	135	9.8100253	462	0.2026542	0	0
73	0.7343380	325	9.9842869	135	9.8101639	462	0.2028147	30	0
74	0.7343430	325	9.9842461	135	9.8103025	462	0.2029752	0	0
75	0.7343440	325	9.9842052	135	9.8104410	462	0.2031357	30	0
76	0.7343410	325	9.9841644	135	9.8105795	462	0.2032962	0	0
77	0.7343350	325	9.9841236	137	9.8107181	462	0.2034567	30	0
78	0.7343260	325	9.9840827	137	9.8108566	462	0.2036172	0	0
79	0.7343140	325	9.9840418	136	9.8109951	462	0.2037777	30	0
80	0.7342990	325	9.9840010	137	9.8111336	461	0.2039382	0	0
81	0.7342810	325	9.9839601	137	9.8112721	461	0.2040987	30	0
82	0.7342600	325	9.9839191	136	9.8114105	461	0.2042592	0	0
83	0.7342360	325	9.9838782	136	9.8115489	461	0.2044197	30	0
84	0.7342090	325	9.9838373	137	9.8116873	461	0.2045802	0	0
85	0.7341790	325	9.9837963	136	9.8118257	461	0.2047407	30	0
86	0.7341460	324	9.9837554	137	9.8119641	461	0.2049012	0	0
87	0.7341100	325	9.9837144	137	9.8121024	461	0.2050617	30	0
88	0.7340710	324	9.9836734	136	9.8122408	461	0.2052222	0	0
89	0.7340290	324	9.9836324	137	9.8123791	461	0.2053827	30	0
90	0.7339840	324	9.9835914	10''	9.8125174	10''	0.2055432	0	0
91	0.7339360	10''	l. sin.	diff.	l. cotan.	diff.	l. tang.	"	1

1	"	l. sin.	diff.	l. cosin.	d.	l. tang.	diff.	l. cotan.	"	1
			10"		10"		10"			
0	0	9.7361088	304	9.9255914	137	9.8125174	461	0.1874806	0	60
30	30	9.7362060	304	9.9255504	137	9.8126556	461	0.1873444	30	59
1	0	9.7363038	304	9.9255093	136	9.8127939	461	0.1872081	0	58
30	30	9.7364004	304	9.9254683	137	9.8129321	461	0.1870719	30	57
2	0	9.7364976	304	9.9254272	137	9.8130704	460	0.1869356	0	56
30	30	9.7365947	304	9.9253861	137	9.8132086	460	0.1867991	30	55
3	0	9.7366918	304	9.9253450	137	9.8133468	461	0.1866628	0	54
30	30	9.7367889	303	9.9253039	137	9.8134849	461	0.1865265	30	53
4	0	9.7368859	303	9.9252628	137	9.8136231	461	0.1863902	0	52
30	30	9.7369829	303	9.9252217	137	9.8137612	461	0.1862538	30	51
5	0	9.7370799	303	9.9251805	137	9.8138993	461	0.1861175	0	50
30	30	9.7371768	303	9.9251394	137	9.8140374	461	0.1859812	30	49
6	0	9.7372737	303	9.9250982	137	9.8141755	460	0.1858449	0	48
30	30	9.7373705	303	9.9250570	137	9.8143136	460	0.1857086	30	47
7	0	9.7374675	302	9.9250158	137	9.8144516	460	0.1855723	0	46
30	30	9.7375643	303	9.9249746	137	9.8145897	460	0.1854360	30	45
8	0	9.7376611	302	9.9249334	137	9.8147277	460	0.1853000	0	44
30	30	9.7377578	303	9.9248922	138	9.8148657	460	0.1851637	30	43
9	0	9.7378546	302	9.9248509	137	9.8150036	460	0.1850274	0	42
30	30	9.7379513	302	9.9248097	138	9.8151416	460	0.1848911	30	41
10	0	9.7380479	302	9.9247684	138	9.8152795	460	0.1847548	0	40
30	30	9.7381446	302	9.9247271	138	9.8154175	459	0.1846185	30	39
11	0	9.7382412	302	9.9246858	138	9.8155554	459	0.1844822	0	38
30	30	9.7383377	302	9.9246445	138	9.8156933	459	0.1843459	30	37
12	0	9.7384343	301	9.9246032	138	9.8158311	459	0.1842096	0	36
30	30	9.7385308	301	9.9245618	138	9.8159690	460	0.1840733	30	35
13	0	9.7386273	301	9.9245205	138	9.8161068	460	0.1839370	0	34
30	30	9.7387237	302	9.9244791	138	9.8162446	460	0.1838007	30	33
14	0	9.7388201	302	9.9244377	138	9.8163824	460	0.1836644	0	32
30	30	9.7389165	301	9.9243963	138	9.8165202	460	0.1835281	30	31
15	0	9.7390129	301	9.9243549	138	9.8166580	459	0.1833918	0	30
30	30	9.7391092	301	9.9243135	138	9.8167957	459	0.1832555	30	29
16	0	9.7392055	301	9.9242721	138	9.8169335	459	0.1831192	0	28
30	30	9.7393018	301	9.9242306	138	9.8170712	459	0.1829829	30	27
17	0	9.7393980	301	9.9241891	138	9.8172089	459	0.1828466	0	26
30	30	9.7394942	301	9.9241477	138	9.8173466	459	0.1827103	30	25
18	0	9.7395904	300	9.9241062	138	9.8174842	459	0.1825740	0	24
30	30	9.7396865	301	9.9240647	138	9.8176218	459	0.1824377	30	23
19	0	9.7397827	300	9.9240232	139	9.8177595	458	0.1823014	0	22
30	30	9.7398787	301	9.9239817	139	9.8178971	458	0.1821651	30	21
20	0	9.7399748	300	9.9239401	138	9.8180347	458	0.1820288	0	20
30	30	9.7400708	300	9.9238985	139	9.8181722	459	0.1818925	30	19
21	0	9.7401668	300	9.9238570	139	9.8183098	459	0.1817562	0	18
30	30	9.7402628	300	9.9238154	138	9.8184473	459	0.1816199	30	17
22	0	9.7403587	300	9.9237738	138	9.8185849	458	0.1814836	0	16
30	30	9.7404546	300	9.9237322	138	9.8187224	458	0.1813473	30	15
23	0	9.7405505	319	9.9236906	139	9.8188599	458	0.1812110	0	14
30	30	9.7406463	300	9.9236490	139	9.8189973	459	0.1810747	30	13
24	0	9.7407421	300	9.9236073	138	9.8191348	458	0.1809384	0	12
30	30	9.7408379	319	9.9235657	139	9.8192722	458	0.1808021	30	11
25	0	9.7409337	319	9.9235240	139	9.8194096	458	0.1806658	0	10
30	30	9.7410294	319	9.9234823	139	9.8195470	458	0.1805295	30	9
26	0	9.7411251	319	9.9234406	139	9.8196844	458	0.1803932	0	8
30	30	9.7412207	319	9.9233989	139	9.8198218	458	0.1802569	30	7
27	0	9.7413164	318	9.9233572	139	9.8199592	457	0.1801206	0	6
30	30	9.7414120	318	9.9233155	139	9.8200965	458	0.1799843	30	5
28	0	9.7415075	319	9.9232737	139	9.8202338	458	0.1798480	0	4
30	30	9.7416031	318	9.9232320	140	9.8203711	458	0.1797117	30	3
29	0	9.7416986	318	9.9231902	139	9.8205084	457	0.1795754	0	2
30	30	9.7417940	319	9.9231484	139	9.8206457	457	0.1794391	30	1
30	0	9.7418895		9.9231066		9.8207829		0.1793028	0	0
			10"		10"		10"			
	"	l. cosin.	diff.	l. sin.	d.	l. cotan.	diff.	l. tang.	"	1

35 deg.

1	2	L. sin.	diff.	L. cosin.	d.	L. tang.	d.	L. cotan.	11	1
—	—	10''	10''	10''	10''	10''	10''	10''	—	—
0	0	9.7885913	301	9.9133645	147	9.8482268	448	0.1547732	0	60
0	1	9.7886815	301	9.9133303	148	9.8483612	448	0.1546388	0	30
1	0	9.7887717	300	9.9132960	147	9.8484956	448	0.1545044	0	60
1	1	9.7888618	300	9.9132618	148	9.8486300	448	0.1543700	0	30
2	0	9.7889519	300	9.9132275	148	9.8487644	448	0.1542356	0	60
2	1	9.7890420	300	9.9131932	148	9.8488988	448	0.1541012	0	30
3	0	9.7891321	300	9.9131589	148	9.8490332	447	0.1539668	0	60
3	1	9.7892221	300	9.9131246	148	9.8491675	447	0.1538325	0	30
4	0	9.7893121	300	9.9130902	147	9.8493018	447	0.1536982	0	60
4	1	9.7894021	299	9.9130559	148	9.8494362	447	0.1535638	0	30
5	0	9.7894920	300	9.9130215	147	9.8495705	447	0.1534295	0	60
5	1	9.7895819	300	9.9129872	148	9.8497048	447	0.1532952	0	30
6	0	9.7896718	300	9.9129528	148	9.8498390	448	0.1531610	0	60
6	1	9.7897617	299	9.9129184	148	9.8499733	447	0.1530267	0	30
7	0	9.7898515	299	9.9128840	148	9.8501075	448	0.1528925	0	60
7	1	9.7899413	299	9.9128496	148	9.8502418	447	0.1527582	0	30
8	0	9.7900311	299	9.9128151	148	9.8503760	447	0.1526240	0	60
8	1	9.7901208	300	9.9127806	148	9.8505102	447	0.1524898	0	30
9	0	9.7902106	299	9.9127462	148	9.8506444	447	0.1523556	0	60
9	1	9.7903003	299	9.9127117	148	9.8507786	447	0.1522214	0	30
10	0	9.7903899	299	9.9126772	148	9.8509127	447	0.1520873	0	60
10	1	9.7904796	298	9.9126427	149	9.8510469	447	0.1519531	0	30
11	0	9.7905692	298	9.9126082	149	9.8511810	447	0.1518190	0	60
11	1	9.7906588	298	9.9125736	149	9.8513151	447	0.1516848	0	30
12	0	9.7907483	299	9.9125391	149	9.8514492	447	0.1515508	0	60
12	1	9.7908378	299	9.9125045	148	9.8515833	447	0.1514167	0	30
13	0	9.7909274	298	9.9124700	148	9.8517174	447	0.1512826	0	60
13	1	9.7910168	298	9.9124353	148	9.8518515	447	0.1511485	0	30
14	0	9.7911063	298	9.9124007	148	9.8519856	447	0.1510145	0	60
14	1	9.7911957	298	9.9123661	149	9.8521196	447	0.1508804	0	30
15	0	9.7912851	298	9.9123315	149	9.8522536	447	0.1507464	0	60
15	1	9.7913744	298	9.9122968	149	9.8523876	447	0.1506124	0	30
16	0	9.7914638	298	9.9122622	149	9.8525216	447	0.1504784	0	60
16	1	9.7915531	298	9.9122275	149	9.8526556	447	0.1503444	0	30
17	0	9.7916424	297	9.9121928	149	9.8527896	446	0.1502104	0	60
17	1	9.7917316	298	9.9121581	149	9.8529236	447	0.1500765	0	30
18	0	9.7918208	298	9.9121234	149	9.8530575	446	0.1499425	0	60
18	1	9.7919100	298	9.9120887	150	9.8531914	446	0.1498086	0	30
19	0	9.7919992	297	9.9120540	149	9.8533253	446	0.1496747	0	60
19	1	9.7920884	297	9.9120193	149	9.8534592	446	0.1495408	0	30
20	0	9.7921775	297	9.9119846	150	9.8535931	446	0.1494069	0	60
20	1	9.7922666	297	9.9119499	149	9.8537270	446	0.1492730	0	30
21	0	9.7923556	297	9.9119152	149	9.8538608	446	0.1491392	0	60
21	1	9.7924447	296	9.9118805	149	9.8539947	446	0.1490053	0	30
22	0	9.7925337	296	9.9118458	149	9.8541285	446	0.1488715	0	60
22	1	9.7926226	297	9.9118111	149	9.8542623	446	0.1487377	0	30
23	0	9.7927116	296	9.9117764	150	9.8543961	446	0.1486039	0	60
23	1	9.7928005	297	9.9117417	150	9.8545299	446	0.1484701	0	30
24	0	9.7928894	296	9.9117070	150	9.8546637	446	0.1483363	0	60
24	1	9.7929783	296	9.9116723	150	9.8547975	446	0.1482025	0	30
25	0	9.7930671	296	9.9116376	150	9.8549312	446	0.1480688	0	60
25	1	9.7931560	296	9.9116029	150	9.8550650	446	0.1479350	0	30
26	0	9.7932447	296	9.9115682	149	9.8551987	446	0.1478013	0	60
26	1	9.7933335	296	9.9115335	149	9.8553324	446	0.1476676	0	30
27	0	9.7934222	296	9.9114988	150	9.8554661	446	0.1475339	0	60
27	1	9.7935109	296	9.9114641	150	9.8556000	446	0.1474002	0	30
28	0	9.7935996	296	9.9114294	150	9.8557337	446	0.1472665	0	60
28	1	9.7936883	296	9.9113947	150	9.8558674	446	0.1471328	0	30
29	0	9.7937769	295	9.9113600	150	9.8560011	446	0.1469992	0	60
29	1	9.7938655	295	9.9113253	150	9.8561348	446	0.1468655	0	30
30	0	9.7939540	295	9.9112906	150	9.8562685	446	0.1467318	0	60
30	1	9.7940426	295	9.9112559	150	9.8564022	446	0.1465981	0	30
31	0	9.7941311	295	9.9112212	150	9.8565359	446	0.1464644	0	60
31	1	9.7942196	295	9.9111865	150	9.8566696	446	0.1463307	0	30
32	0	9.7943081	295	9.9111518	150	9.8568033	446	0.1461970	0	60
32	1	9.7943966	295	9.9111171	150	9.8569370	446	0.1460633	0	30
33	0	9.7944851	295	9.9110824	150	9.8570707	446	0.1459296	0	60
33	1	9.7945736	295	9.9110477	150	9.8572044	446	0.1457959	0	30
34	0	9.7946621	295	9.9110130	150	9.8573381	446	0.1456622	0	60
34	1	9.7947506	295	9.9109783	150	9.8574718	446	0.1455285	0	30
35	0	9.7948391	295	9.9109436	150	9.8576055	446	0.1453948	0	60
35	1	9.7949276	295	9.9109089	150	9.8577392	446	0.1452611	0	30
36	0	9.7950161	295	9.9108742	150	9.8578729	446	0.1451274	0	60
36	1	9.7951046	295	9.9108395	150	9.8580066	446	0.1449937	0	30
37	0	9.7951931	295	9.9108048	150	9.8581403	446	0.1448600	0	60
37	1	9.7952816	295	9.9107701	150	9.8582740	446	0.1447263	0	30
38	0	9.7953701	295	9.9107354	150	9.8584077	446	0.1445926	0	60
38	1	9.7954586	295	9.9107007	150	9.8585414	446	0.1444589	0	30
39	0	9.7955471	295	9.9106660	150	9.8586751	446	0.1443252	0	60
39	1	9.7956356	295	9.9106313	150	9.8588088	446	0.1441915	0	30
40	0	9.7957241	295	9.9105966	150	9.8589425	446	0.1440578	0	60
40	1	9.7958126	295	9.9105619	150	9.8590762	446	0.1439241	0	30
41	0	9.7959011	295	9.9105272	150	9.8592099	446	0.1437904	0	60
41	1	9.7959896	295	9.9104925	150	9.8593436	446	0.1436567	0	30
42	0	9.7960781	295	9.9104578	150	9.8594773	446	0.1435230	0	60
42	1	9.7961666	295	9.9104231	150	9.8596110	446	0.1433893	0	30
43	0	9.7962551	295	9.9103884	150	9.8597447	446	0.1432556	0	60
43	1	9.7963436	295	9.9103537	150	9.8598784	446	0.1431219	0	30
44	0	9.7964321	295	9.9103190	150	9.8599921	446	0.1429882	0	60
44	1	9.7965206	295	9.9102843	150	9.8601258	446	0.1428545	0	30
45	0	9.7966091	295	9.9102496	150	9.8602595	446	0.1427208	0	60
45	1	9.7966976	295	9.9102149	150	9.8603932	446	0.1425871	0	30
46	0	9.7967861	295	9.9101802	150	9.8605269	446	0.1424534	0	60
46	1	9.7968746	295	9.9101455	150	9.8606606	446	0.1423197	0	30
47	0	9.7969631	295	9.9101108	150	9.8607943	446	0.1421860	0	60
47	1	9.7970516	295	9.9100761	150	9.8609280	446	0.1420523	0	30
48	0	9.7971401	295	9.9100414	150	9.8610617	446	0.1419186	0	60
48	1	9.7972286	295	9.9100067	150	9.8611954	446	0.1417849	0	30
49	0	9.7973171	295	9.9099720	150	9.8613291	446	0.1416512	0	60
49	1	9.7974056	295	9.9099373	150	9.8614628	446	0.1415175	0	30
50	0	9.7974941	295	9.9099026	150	9.8615965	446	0.1413838	0	60
50	1	9.7975826	295	9.9098679	150	9.8617302	446	0.1412501	0	30
51	0	9.7976711	295	9.9098332	150	9.8618639	446	0.1411164	0	60
51	1	9.7977596	295	9.9097985	150	9.8619976	446	0.1409827	0	30
52	0	9.7978481	295	9.9097638	150	9.8621313	446	0.1408490	0	60
52	1	9.7979366	295	9.9097291	150	9.8622650	446	0.1407153	0	30
53	0	9.7980251	295	9.9096944	150	9.8623987	446	0.1405816	0	60
53	1	9.7981136	295	9.9096597	150	9.8625324	446	0.1404479	0	30
54	0	9.7982021	295	9.9096250	150	9.8626661	446	0.1403142	0	60
54	1	9.7982906	295	9.9095903	150	9.8628000	44			

35 deg.

l.	l. sin.	diff.	l. cosin.	d.	l. tang.	diff.	l. cotan.	l.
10'		10''		10'		10''		
30	9.7636640	895	9.9105860	150	9.8536680	445	0.1467300	30
31	9.7640486	895	9.9106410	151	9.8534016	445	0.1465684	31
32	9.7641311	895	9.9105565	151	9.8535398	445	0.1464648	32
33	9.7641965	895	9.9105508	150	9.8536688	445	0.1463312	33
34	9.7643080	895	9.9105007	150	9.8538023	445	0.1461977	34
35	9.7643965	894	9.9104606	151	9.8539359	445	0.1460641	35
36	9.7644842	894	9.9104155	151	9.8540694	445	0.1459306	36
37	9.7645733	894	9.9103703	151	9.8542029	445	0.1457971	37
38	9.7646616	894	9.9103251	150	9.8543365	445	0.1456635	38
39	9.7647499	895	9.9102800	151	9.8544700	445	0.1455300	39
40	9.7648382	895	9.9102348	151	9.8546034	445	0.1453966	40
41	9.7649265	894	9.9101896	151	9.8547369	445	0.1452631	41
42	9.7650147	894	9.9101444	151	9.8548704	445	0.1451296	42
43	9.7651030	894	9.9100991	150	9.8550038	445	0.1449962	43
44	9.7651911	894	9.9100539	151	9.8551372	445	0.1448628	44
45	9.7652793	894	9.9100086	151	9.8552707	444	0.1447293	45
46	9.7653674	894	9.9099634	151	9.8554041	444	0.1445959	46
47	9.7654555	894	9.9099181	151	9.8555375	444	0.1444625	47
48	9.7655436	894	9.9098728	151	9.8556708	445	0.1443290	48
49	9.7656317	893	9.9098275	151	9.8558042	445	0.1441956	49
50	9.7657197	893	9.9097821	151	9.8559376	444	0.1440624	50
51	9.7658077	893	9.9097368	151	9.8560709	444	0.1439291	51
52	9.7658957	893	9.9096915	152	9.8562042	445	0.1437958	52
53	9.7659836	893	9.9096461	151	9.8563376	445	0.1436625	53
54	9.7660715	893	9.9096007	151	9.8564708	445	0.1435292	54
55	9.7661594	893	9.9095553	151	9.8566041	444	0.1433959	55
56	9.7662473	893	9.9095099	151	9.8567374	444	0.1432626	56
57	9.7663351	893	9.9094645	152	9.8568707	444	0.1431293	57
58	9.7664229	893	9.9094190	151	9.8570039	444	0.1429960	58
59	9.7665107	893	9.9093736	152	9.8571371	444	0.1428627	59
60	9.7665985	892	9.9093281	151	9.8572704	444	0.1427295	60
61	9.7666862	892	9.9092826	151	9.8574036	444	0.1425962	61
62	9.7667739	892	9.9092371	151	9.8575368	444	0.1424630	62
63	9.7668616	892	9.9091916	151	9.8576699	444	0.1423297	63
64	9.7669492	892	9.9091461	152	9.8578031	444	0.1421965	64
65	9.7670368	892	9.9091006	152	9.8579363	444	0.1420633	65
66	9.7671244	892	9.9090550	152	9.8580694	444	0.1419300	66
67	9.7672120	892	9.9090095	152	9.8582025	444	0.1417967	67
68	9.7672996	891	9.9089639	152	9.8583357	443	0.1416634	68
69	9.7673871	891	9.9089183	152	9.8584688	443	0.1415301	69
70	9.7674746	891	9.9088727	152	9.8586019	443	0.1413968	70
71	9.7675620	892	9.9088271	152	9.8587349	444	0.1412635	71
72	9.7676494	892	9.9087814	152	9.8588680	444	0.1411302	72
73	9.7677369	891	9.9087358	152	9.8590011	443	0.1409969	73
74	9.7678242	892	9.9086901	152	9.8591341	443	0.1408636	74
75	9.7679116	891	9.9086445	153	9.8592671	444	0.1407303	75
76	9.7679989	891	9.9085988	153	9.8594002	443	0.1405970	76
77	9.7680862	891	9.9085531	153	9.8595332	443	0.1404637	77
78	9.7681735	891	9.9085075	152	9.8596661	444	0.1403304	78
79	9.7682607	891	9.9084616	152	9.8597991	443	0.1401971	79
80	9.7683480	890	9.9084159	153	9.8599321	443	0.1400638	80
81	9.7684351	891	9.9083701	152	9.8600650	444	0.1399305	81
82	9.7685222	891	9.9083243	152	9.8601980	443	0.1397972	82
83	9.7686095	890	9.9082785	152	9.8603309	443	0.1396639	83
84	9.7686966	890	9.9082327	152	9.8604638	443	0.1395306	84
85	9.7687837	890	9.9081869	152	9.8605967	443	0.1393973	85
86	9.7688707	890	9.9081411	153	9.8607296	443	0.1392640	86
87	9.7689577	891	9.9080953	153	9.8608625	443	0.1391307	87
88	9.7690448	890	9.9080494	153	9.8609954	442	0.1389974	88
89	9.7691317	890	9.9080035	153	9.8611282	443	0.1388641	89
90	9.7692187	891	9.9079576	153	9.8612610	443	0.1387308	90
l.	l. sin.	diff.	l. cosin.	d.	l. cotan.	diff.	l. tang.	l.
10'		10''		10'		10''		

54 deg.

36 deg.

#	'	l. sin.	diff. 10"	l. cosin.	d. 10"	l. tang.	diff. 10"	l. cotan.	'	#
—	0	9.7692187	290	9.9079876	153	9.8612610	443	0.1387390	0	60
1	30	9.7693056	290	9.9079117	153	9.8613939	440	0.1386061	30	59
2	30	9.7693925	290	9.9078658	153	9.8615267	440	0.1384733	0	58
3	30	9.7694794	289	9.9078199	153	9.8616595	440	0.1383405	0	57
4	30	9.7695662	289	9.9077740	154	9.8617923	440	0.1382077	0	56
5	30	9.7696531	289	9.9077280	153	9.8619250	443	0.1380750	30	55
6	30	9.7697398	289	9.9076820	153	9.8620578	443	0.1379422	0	54
7	30	9.7698266	289	9.9076361	154	9.8621906	442	0.1378094	0	53
8	30	9.7699134	289	9.9075901	154	9.8623233	442	0.1376767	0	52
9	30	9.7700001	289	9.9075440	153	9.8624560	443	0.1375440	30	51
10	0	9.7700868	288	9.9074980	153	9.8625887	443	0.1374113	0	50
11	30	9.7701734	289	9.9074520	154	9.8627214	443	0.1372786	0	49
12	30	9.7702601	288	9.9074059	153	9.8628541	443	0.1371459	0	48
13	30	9.7703467	288	9.9073599	154	9.8629868	442	0.1370132	0	47
14	30	9.7704332	289	9.9073138	154	9.8631195	442	0.1368805	0	46
15	30	9.7705198	288	9.9072677	154	9.8632521	442	0.1367479	0	45
16	30	9.7706063	289	9.9072216	154	9.8633848	442	0.1366152	0	44
17	30	9.7706928	289	9.9071754	153	9.8635174	442	0.1364826	0	43
18	30	9.7707793	288	9.9071293	154	9.8636500	442	0.1363500	0	42
19	30	9.7708658	288	9.9070832	154	9.8637826	442	0.1362174	0	41
20	0	9.7709522	288	9.9070370	154	9.8639152	442	0.1360848	0	40
21	30	9.7710386	288	9.9069908	154	9.8640478	442	0.1359522	0	39
22	30	9.7711249	288	9.9069446	154	9.8641803	442	0.1358197	0	38
23	30	9.7712113	288	9.9068984	154	9.8643129	442	0.1356871	0	37
24	30	9.7712976	288	9.9068522	154	9.8644454	442	0.1355546	0	36
25	30	9.7713839	288	9.9068060	154	9.8645780	441	0.1354220	0	35
26	30	9.7714702	287	9.9067597	154	9.8647105	441	0.1352895	0	34
27	30	9.7715564	287	9.9067134	154	9.8648430	441	0.1351570	0	33
28	30	9.7716426	288	9.9066671	154	9.8649755	441	0.1350245	0	32
29	30	9.7717288	287	9.9066208	154	9.8651080	441	0.1348920	0	31
30	0	9.7718150	287	9.9065745	154	9.8652404	442	0.1347596	0	30
31	30	9.7719011	287	9.9065282	154	9.8653729	441	0.1346271	0	29
32	30	9.7719872	287	9.9064819	155	9.8655053	442	0.1344947	0	28
33	30	9.7720733	287	9.9064356	154	9.8656378	441	0.1343622	0	27
34	30	9.7721593	287	9.9063892	155	9.8657702	441	0.1342298	0	26
35	30	9.7722454	286	9.9063428	155	9.8659026	441	0.1340974	0	25
36	30	9.7723314	286	9.9062964	155	9.8660350	441	0.1339650	0	24
37	30	9.7724174	286	9.9062500	155	9.8661674	441	0.1338326	0	23
38	30	9.7725033	286	9.9062036	155	9.8662997	442	0.1337003	0	22
39	30	9.7725892	287	9.9061571	154	9.8664321	441	0.1335679	0	21
40	0	9.7726751	286	9.9061107	155	9.8665644	442	0.1334356	0	20
41	30	9.7727610	286	9.9060642	155	9.8666968	441	0.1333032	0	19
42	30	9.7728468	286	9.9060177	155	9.8668291	441	0.1331709	0	18
43	30	9.7729327	285	9.9059713	155	9.8669614	441	0.1330386	0	17
44	30	9.7730185	285	9.9059247	155	9.8670937	441	0.1329063	0	16
45	30	9.7731042	286	9.9058782	155	9.8672260	441	0.1327740	0	15
46	30	9.7731900	285	9.9058317	155	9.8673583	441	0.1326417	0	14
47	30	9.7732757	285	9.9057851	155	9.8674905	441	0.1325095	0	13
48	30	9.7733614	285	9.9057386	155	9.8676228	441	0.1323772	0	12
49	30	9.7734470	286	9.9056920	155	9.8677550	441	0.1322450	0	11
50	0	9.7735327	285	9.9056454	155	9.8678873	440	0.1321127	0	10
51	30	9.7736183	285	9.9055988	155	9.8680195	440	0.1319805	0	9
52	30	9.7737039	285	9.9055522	156	9.8681517	440	0.1318483	0	8
53	30	9.7737894	285	9.9055056	156	9.8682839	440	0.1317161	0	7
54	30	9.7738749	286	9.9054589	155	9.8684160	441	0.1315840	0	6
55	30	9.7739605	285	9.9054122	155	9.8685482	441	0.1314518	0	5
56	30	9.7740459	285	9.9053656	156	9.8686804	440	0.1313196	0	4
57	30	9.7741314	285	9.9053189	156	9.8688126	441	0.1311875	0	3
58	30	9.7742168	285	9.9052722	156	9.8689446	441	0.1310554	0	2
59	30	9.7743022	285	9.9052255	156	9.8690768	440	0.1309232	0	1
60	0	9.7743876	10"	9.9051787	10"	9.8692089	10"	0.1307911	0	0
#	'	l. cosin.	diff.	l. sin.	d.	l. cotan.	diff.	l. tang.	#	'

53 deg.

36 deg.

'	"	L. sin.	dif. 10"	L. cosin.	d. 10"	L. tang.	dif. 10"	L. cotan.	"	'
30	0	9.7743876	285	9.9051787	156	9.8692089	440	0.1307911	0	30
	1	9.7744729	285	9.9051300	156	9.8693410	440	0.1306590	0	29
31	0	9.7745583	284	9.9050859	156	9.8694731	440	0.1305269	0	29
	1	9.7746436	284	9.9050384	156	9.8696051	441	0.1303949	0	28
32	0	9.7747288	285	9.9049916	156	9.8697372	440	0.1302628	0	28
	1	9.7748141	284	9.9049448	156	9.8698692	441	0.1301308	0	27
33	0	9.7748993	284	9.9048980	156	9.8700013	440	0.1299987	0	27
	1	9.7749845	284	9.9048512	156	9.8701333	440	0.1298667	0	26
34	0	9.7750697	284	9.9048043	156	9.8702653	440	0.1297347	0	26
	1	9.7751548	284	9.9047575	156	9.8703973	440	0.1296027	0	25
35	0	9.7752399	284	9.9047106	156	9.8705293	440	0.1294707	0	25
	1	9.7753250	284	9.9046637	156	9.8706613	440	0.1293387	0	24
36	0	9.7754101	283	9.9046168	156	9.8707933	440	0.1292067	0	24
	1	9.7754951	283	9.9045699	156	9.8709252	440	0.1290748	0	23
37	0	9.7755801	284	9.9045230	157	9.8710572	440	0.1289428	0	23
	1	9.7756651	284	9.9044760	156	9.8711891	440	0.1288109	0	22
38	0	9.7757501	283	9.9044291	157	9.8713210	440	0.1286790	0	22
	1	9.7758350	283	9.9043821	157	9.8714529	440	0.1285471	0	21
39	0	9.7759199	283	9.9043351	157	9.8715848	440	0.1284152	0	21
	1	9.7760048	283	9.9042881	157	9.8717167	440	0.1282833	0	20
40	0	9.7760897	283	9.9042411	157	9.8718486	440	0.1281514	0	20
	1	9.7761745	283	9.9041940	156	9.8719805	439	0.1280195	0	19
41	0	9.7762593	283	9.9041470	157	9.8721123	440	0.1278877	0	19
	1	9.7763441	283	9.9040999	157	9.8722442	439	0.1277558	0	18
42	0	9.7764289	282	9.9040529	157	9.8723760	439	0.1276240	0	18
	1	9.7765136	282	9.9040058	157	9.8725078	440	0.1274922	0	17
43	0	9.7765983	282	9.9039587	157	9.8726396	440	0.1273604	0	17
	1	9.7766830	282	9.9039115	157	9.8727714	440	0.1272286	0	16
44	0	9.7767676	282	9.9038644	157	9.8729032	439	0.1270968	0	16
	1	9.7768523	282	9.9038173	157	9.8730350	439	0.1269650	0	15
45	0	9.7769369	282	9.9037701	157	9.8731668	439	0.1268332	0	15
	1	9.7770214	282	9.9037229	157	9.8732985	439	0.1267015	0	14
46	0	9.7771060	282	9.9036757	157	9.8734302	440	0.1265698	0	14
	1	9.7771905	282	9.9036285	157	9.8735620	439	0.1264380	0	13
47	0	9.7772750	282	9.9035813	157	9.8736937	439	0.1263063	0	13
	1	9.7773595	281	9.9035341	158	9.8738254	439	0.1261745	0	12
48	0	9.7774439	282	9.9034869	157	9.8739571	439	0.1260429	0	12
	1	9.7775284	281	9.9034396	158	9.8740888	439	0.1259112	0	11
49	0	9.7776128	281	9.9033923	158	9.8742204	439	0.1257796	0	11
	1	9.7776971	281	9.9033450	157	9.8743521	439	0.1256479	0	10
50	0	9.7777815	281	9.9032977	158	9.8744838	438	0.1255162	0	10
	1	9.7778658	281	9.9032504	158	9.8746154	439	0.1253846	0	9
51	0	9.7779501	281	9.9032031	158	9.8747470	439	0.1252530	0	9
	1	9.7780344	280	9.9031557	158	9.8748786	439	0.1251214	0	8
52	0	9.7781186	281	9.9031084	158	9.8750102	439	0.1249898	0	8
	1	9.7782028	281	9.9030610	158	9.8751418	439	0.1248582	0	7
53	0	9.7782870	281	9.9030136	158	9.8752734	439	0.1247266	0	7
	1	9.7783712	280	9.9029662	158	9.8754050	438	0.1245950	0	6
54	0	9.7784553	281	9.9029188	158	9.8755365	439	0.1244635	0	6
	1	9.7785394	281	9.9028713	158	9.8756681	438	0.1243319	0	5
55	0	9.7786235	280	9.9028239	158	9.8757996	439	0.1242004	0	5
	1	9.7787076	280	9.9027764	158	9.8759312	438	0.1240688	0	4
56	0	9.7787916	280	9.9027289	158	9.8760627	438	0.1239373	0	4
	1	9.7788756	280	9.9026815	159	9.8761942	438	0.1238058	0	3
57	0	9.7789596	280	9.9026339	158	9.8763257	438	0.1236743	0	3
	1	9.7790436	280	9.9025864	158	9.8764572	438	0.1235428	0	2
58	0	9.7791275	280	9.9025389	159	9.8765886	439	0.1234114	0	2
	1	9.7792114	280	9.9024913	158	9.8767201	438	0.1232799	0	1
59	0	9.7792953	280	9.9024438	159	9.8768515	438	0.1231485	0	1
	1	9.7793792	279	9.9023962	159	9.8769830	439	0.1230170	0	0
60	0	9.7794630		9.9023486		9.8771144		0.1228855	0	0
'	"	L. cosin.	dif. 10"	L. sin.	d. 10"	L. cotan.	dif. 10"	L. tang.	"	'

53 deg.

37 deg.

l.	l. sin.	dif.	l. cosin.	dif.	l. tang.	dif.	l. cotan.	l.
10"	10"	10"	10"	10"	10"	10"	10"	10"
0	0.7794630	280	0.9023486	159	0.8771144	438	0.1208866	0 60
30	0.7795468	280	0.9023010	159	0.8772458	438	0.1207542	30 59
1	0.7796306	279	0.9022534	159	0.8773772	438	0.1206218	0 58
30	0.7797144	279	0.9022058	159	0.8775086	438	0.1204894	30 57
2	0.7797981	279	0.9021581	159	0.8776400	438	0.1203570	0 56
30	0.7798818	279	0.9021104	158	0.8777714	438	0.1202246	30 55
3	0.7799655	279	0.9020628	159	0.8779027	438	0.1200922	0 54
30	0.7800492	278	0.9020151	159	0.8780341	438	0.1200000	30 53
4	0.7801328	278	0.9019674	159	0.8781654	438	0.1198676	0 52
30	0.7802164	279	0.9019196	159	0.8782968	437	0.1197352	30 51
5	0.7803000	278	0.9018719	159	0.8784281	438	0.1196028	0 50
30	0.7803836	278	0.9018242	160	0.8785594	438	0.1194704	30 49
6	0.7804671	278	0.9017764	159	0.8786907	438	0.1193380	0 48
30	0.7805506	278	0.9017286	159	0.8788220	437	0.1192056	30 47
7	0.7806341	278	0.9016808	159	0.8789533	437	0.1190732	0 46
30	0.7807175	278	0.9016330	159	0.8790845	438	0.1189408	30 45
8	0.7808010	278	0.9015852	160	0.8792158	437	0.1188084	0 44
30	0.7808844	278	0.9015374	160	0.8793470	438	0.1186760	30 43
9	0.7809677	278	0.9014895	159	0.8794782	438	0.1185436	0 42
30	0.7810511	278	0.9014416	159	0.8796095	437	0.1184112	30 41
10	0.7811344	278	0.9013938	160	0.8797407	437	0.1182788	0 40
30	0.7812177	278	0.9013459	160	0.8798719	437	0.1181464	30 39
11	0.7813010	278	0.9012980	160	0.8799990	437	0.1180140	0 38
30	0.7813843	277	0.9012500	159	0.8801261	438	0.1178816	30 37
12	0.7814675	277	0.9012021	160	0.8802532	437	0.1177492	0 36
30	0.7815507	277	0.9011541	159	0.8803803	437	0.1176168	30 35
13	0.7816339	277	0.9011062	160	0.8805074	437	0.1174844	0 34
30	0.7817170	278	0.9010582	160	0.8806345	437	0.1173520	30 33
14	0.7818002	277	0.9010102	160	0.8807616	437	0.1172196	0 32
30	0.7818833	277	0.9009622	160	0.8808887	437	0.1170872	30 31
15	0.7819664	276	0.9009142	161	0.8810158	437	0.1169548	0 30
30	0.7820494	277	0.9008661	160	0.8811429	437	0.1168224	30 29
16	0.7821324	277	0.9008181	161	0.8812699	437	0.1166900	0 28
30	0.7822154	277	0.9007700	160	0.8813970	436	0.1165576	30 27
17	0.7822984	277	0.9007219	160	0.8815240	437	0.1164252	0 26
30	0.7823814	276	0.9006738	160	0.8816511	436	0.1162928	30 25
18	0.7824643	276	0.9006257	161	0.8817781	437	0.1161604	0 24
30	0.7825472	276	0.9005776	161	0.8819052	437	0.1160280	30 23
19	0.7826301	276	0.9005295	160	0.8820322	436	0.1158956	0 22
30	0.7827129	277	0.9004813	161	0.8821593	436	0.1157632	30 21
20	0.7827958	276	0.9004331	160	0.8822863	436	0.1156308	0 20
30	0.7828786	276	0.9003849	160	0.8824134	436	0.1154984	30 19
21	0.7829614	275	0.9003367	160	0.8825404	437	0.1153660	0 18
30	0.7830441	275	0.9002885	161	0.8826675	437	0.1152336	30 17
22	0.7831268	275	0.9002403	161	0.8827945	436	0.1151012	0 16
30	0.7832095	276	0.9001921	160	0.8829216	437	0.1149688	30 15
23	0.7832922	276	0.9001438	161	0.8830486	437	0.1148364	0 14
30	0.7833749	275	0.9000955	161	0.8831757	436	0.1147040	30 13
24	0.7834575	276	0.9000472	161	0.8833027	436	0.1145716	0 12
30	0.7835401	275	0.8999989	161	0.8834298	436	0.1144392	30 11
25	0.7836227	275	0.8999506	161	0.8835568	436	0.1143068	0 10
30	0.7837053	275	0.8999023	161	0.8836839	436	0.1141744	30 09
26	0.7837878	275	0.8998539	161	0.8838109	437	0.1140420	0 08
30	0.7838703	275	0.8998056	161	0.8839379	436	0.1139096	30 07
27	0.7839528	275	0.8997572	161	0.8840649	436	0.1137772	0 06
30	0.7840352	275	0.8997088	161	0.8841919	436	0.1136448	30 05
28	0.7841177	274	0.8996604	161	0.8843189	436	0.1135124	0 04
30	0.7842001	274	0.8996120	161	0.8844459	436	0.1133800	30 03
29	0.7842824	274	0.8995636	161	0.8845729	436	0.1132476	0 02
30	0.7843648	274	0.8995151	161	0.8846999	436	0.1131152	30 01
30	0.7844471	10"	0.8994667	10"	0.8848269	10"	0.1129828	0 00
l.	l. cosin.	dif.	l. sin.	dif.	l. cotan.	dif.	l. tang.	l.

52 deg.

l. sin.	diff. 10"	l. cosin.	d. 10"	l. tang.	d. 10"	l. cotan.	l. sin.	diff. 10"	l. cosin.	d. 10"	l. tang.	d. 10"	l. cotan.
30	0	9.7844471	875	9.894667	162	9.8849805	435	0.1150195	30	0	9.8849805	435	0.1150195
30	0	9.7845294	875	9.8944182	162	9.8851113	435	0.1148887	30	0	9.8851113	435	0.1148887
31	0	9.7846117	874	9.8941697	162	9.8852420	435	0.1147580	30	0	9.8852420	435	0.1147580
31	0	9.7846940	874	9.8939212	162	9.8853728	435	0.1146272	30	0	9.8853728	435	0.1146272
32	0	9.7847762	874	9.8936727	162	9.8855035	435	0.1144965	30	0	9.8855035	435	0.1144965
33	0	9.7848584	874	9.8934241	162	9.8856343	435	0.1143657	30	0	9.8856343	435	0.1143657
33	0	9.7849406	874	9.8931756	162	9.8857650	435	0.1142350	30	0	9.8857650	435	0.1142350
34	0	9.7850228	873	9.8929270	162	9.8858957	435	0.1141043	30	0	9.8858957	435	0.1141043
34	0	9.7851049	874	9.8926784	162	9.8860264	435	0.1139736	30	0	9.8860264	435	0.1139736
35	0	9.7851870	874	9.8924298	162	9.8861572	435	0.1138428	30	0	9.8861572	435	0.1138428
36	0	9.7852691	873	9.8921812	162	9.8862878	435	0.1137121	30	0	9.8862878	435	0.1137121
36	0	9.7853511	874	9.8919326	162	9.8864185	435	0.1135813	30	0	9.8864185	435	0.1135813
37	0	9.7854332	873	9.8916840	162	9.8865492	435	0.1134506	30	0	9.8865492	435	0.1134506
37	0	9.7855152	873	9.8914354	162	9.8866799	435	0.1133198	30	0	9.8866799	435	0.1133198
38	0	9.7855972	873	9.8911867	163	9.8868105	435	0.1131891	30	0	9.8868105	435	0.1131891
38	0	9.7856791	873	9.8909380	163	9.8869411	435	0.1130583	30	0	9.8869411	435	0.1130583
39	0	9.7857611	873	9.8906893	163	9.8870718	435	0.1129276	30	0	9.8870718	435	0.1129276
39	0	9.7858430	873	9.8904406	163	9.8872024	435	0.1127969	30	0	9.8872024	435	0.1127969
40	0	9.7859249	873	9.8901919	163	9.8873330	435	0.1126662	30	0	9.8873330	435	0.1126662
40	0	9.7860067	873	9.8904431	162	9.8874636	435	0.1125354	30	0	9.8874636	435	0.1125354
41	0	9.7860886	872	9.8901944	163	9.8875942	435	0.1124048	30	0	9.8875942	435	0.1124048
41	0	9.7861704	872	9.8904456	163	9.8877248	435	0.1122742	30	0	9.8877248	435	0.1122742
42	0	9.7862522	872	9.8901968	163	9.8878554	435	0.1121436	30	0	9.8878554	435	0.1121436
42	0	9.7863339	873	9.8904480	163	9.8879860	435	0.1120129	30	0	9.8879860	435	0.1120129
43	0	9.7864157	872	9.8901992	163	9.8881165	435	0.1118823	30	0	9.8881165	435	0.1118823
43	0	9.7864974	872	9.8904504	163	9.8882470	435	0.1117516	30	0	9.8882470	435	0.1117516
44	0	9.7865791	872	9.8902016	163	9.8883775	435	0.1116209	30	0	9.8883775	435	0.1116209
44	0	9.7866607	873	9.8904527	163	9.8885081	435	0.1114902	30	0	9.8885081	435	0.1114902
45	0	9.7867424	872	9.8902038	163	9.8886386	435	0.1113595	30	0	9.8886386	435	0.1113595
45	0	9.7868240	872	9.8904549	163	9.8887691	435	0.1112288	30	0	9.8887691	435	0.1112288
46	0	9.7869056	872	9.8902060	163	9.8888996	435	0.1110981	30	0	9.8888996	435	0.1110981
46	0	9.7869872	871	9.8904571	163	9.8890301	434	0.1109674	30	0	9.8890301	434	0.1109674
47	0	9.7870687	872	9.8902082	163	9.8891605	435	0.1108367	30	0	9.8891605	435	0.1108367
47	0	9.7871502	872	9.8904603	163	9.8892910	435	0.1107060	30	0	9.8892910	435	0.1107060
48	0	9.7872317	872	9.8902103	164	9.8894214	435	0.1105753	30	0	9.8894214	435	0.1105753
48	0	9.7873132	871	9.8904613	163	9.8895519	435	0.1104446	30	0	9.8895519	435	0.1104446
49	0	9.7873946	872	9.8902123	163	9.8896823	435	0.1103139	30	0	9.8896823	435	0.1103139
49	0	9.7874760	872	9.8904633	163	9.8898127	435	0.1101832	30	0	9.8898127	435	0.1101832
50	0	9.7875574	872	9.8902143	164	9.8899432	434	0.1100525	30	0	9.8899432	434	0.1100525
50	0	9.7876388	871	9.8904652	163	9.8900736	434	0.1099218	30	0	9.8900736	434	0.1099218
51	0	9.7877202	871	9.8902162	164	9.8902040	434	0.1097911	30	0	9.8902040	434	0.1097911
51	0	9.7878015	871	9.8904671	163	9.8903343	435	0.1096604	30	0	9.8903343	435	0.1096604
52	0	9.7878828	871	9.8902181	164	9.8904647	435	0.1095297	30	0	9.8904647	435	0.1095297
52	0	9.7879640	871	9.8904699	164	9.8905951	434	0.1093990	30	0	9.8905951	434	0.1093990
53	0	9.7880453	871	9.8902209	164	9.8907254	435	0.1092683	30	0	9.8907254	435	0.1092683
53	0	9.7881265	871	9.8904727	163	9.8908558	434	0.1091376	30	0	9.8908558	434	0.1091376
54	0	9.7882077	871	9.8902246	164	9.8909861	435	0.1090069	30	0	9.8909861	435	0.1090069
54	0	9.7882889	871	9.8904764	164	9.8911165	434	0.1088762	30	0	9.8911165	434	0.1088762
55	0	9.7883701	870	9.8902263	163	9.8912468	434	0.1087455	30	0	9.8912468	434	0.1087455
55	0	9.7884512	870	9.8904781	164	9.8913771	434	0.1086148	30	0	9.8913771	434	0.1086148
56	0	9.7885323	870	9.8902280	164	9.8915074	434	0.1084841	30	0	9.8915074	434	0.1084841
56	0	9.7886134	870	9.8904807	164	9.8916377	434	0.1083534	30	0	9.8916377	434	0.1083534
57	0	9.7886944	870	9.8902305	164	9.8917679	435	0.1082227	30	0	9.8917679	435	0.1082227
57	0	9.7887754	871	9.8904822	164	9.8918982	434	0.1080920	30	0	9.8918982	434	0.1080920
58	0	9.7888565	869	9.8902320	164	9.8920285	434	0.1079613	30	0	9.8920285	434	0.1079613
58	0	9.7889374	870	9.8904837	164	9.8921587	434	0.1078306	30	0	9.8921587	434	0.1078306
59	0	9.7890184	870	9.8902344	164	9.8922890	434	0.1077000	30	0	9.8922890	434	0.1077000
59	0	9.7890993	870	9.8904861	164	9.8924192	434	0.1075693	30	0	9.8924192	434	0.1075693
60	0	9.7891802	870	9.8902368	164	9.8925494	434	0.1074386	30	0	9.8925494	434	0.1074386
60	0	9.7892611	870	9.8904885	165	9.8926796	434	0.1073079	30	0	9.8926796	434	0.1073079
61	0	9.7893420	869	9.8902391	165	9.8928098	434	0.1071772	30	0	9.8928098	434	0.1071772

°	'	l. sin.	diff. 10"	L. cosin.	d. 10"	l. tang.	diff. 10"	l. cotan.	"	'
0	0	9.7893400	269	9.8065321	164	9.8088088	434	0.1071902	0	60
0	1	9.7894288	270	9.8064828	165	9.8089400	434	0.1070800	30	0
1	0	9.7895036	270	9.8064334	164	9.8090708	434	0.1069688	0	59
1	1	9.7895784	269	9.8063840	164	9.8092000	434	0.1068576	30	0
2	0	9.7896532	269	9.8063346	164	9.8093306	433	0.1067464	0	58
3	0	9.7897280	269	9.8062852	165	9.8094607	434	0.1066352	30	0
3	1	9.7898028	269	9.8062358	165	9.8095909	433	0.1065240	0	57
4	0	9.7898776	269	9.8061863	165	9.8097210	434	0.1064128	30	0
4	1	9.7899524	269	9.8061369	165	9.8098511	434	0.1063016	0	56
5	0	9.7900272	269	9.8060874	165	9.8099818	434	0.1061904	30	0
6	0	9.7901020	268	9.8060379	165	9.8101114	433	0.1060792	0	55
6	1	9.7901768	269	9.8059884	165	9.8102415	433	0.1059680	30	0
7	0	9.7902516	269	9.8059389	165	9.8103715	434	0.1058568	0	54
7	1	9.7903264	268	9.8058893	165	9.8105016	434	0.1057456	30	0
8	0	9.7904012	268	9.8058398	165	9.8106317	434	0.1056344	0	53
8	1	9.7904760	268	9.8057902	165	9.8107618	433	0.1055232	30	0
9	0	9.7905508	268	9.8057406	165	9.8108918	434	0.1054120	0	52
9	1	9.7906256	268	9.8056910	165	9.8110219	433	0.1053008	30	0
10	0	9.7907004	268	9.8056414	165	9.8111519	433	0.1051896	0	51
10	1	9.7907752	268	9.8055918	165	9.8112819	434	0.1050784	30	0
11	0	9.7908500	268	9.8055422	166	9.8114119	434	0.1049672	0	50
11	1	9.7909248	267	9.8054925	166	9.8115419	434	0.1048560	30	0
12	0	9.7910000	268	9.8054429	166	9.8116719	434	0.1047448	0	49
12	1	9.7910752	267	9.8053932	166	9.8118019	434	0.1046336	30	0
13	0	9.7911504	267	9.8053436	166	9.8119319	433	0.1045224	0	48
13	1	9.7912256	268	9.8052938	166	9.8120619	433	0.1044112	30	0
14	0	9.7913008	267	9.8052440	166	9.8121918	434	0.1043000	0	47
14	1	9.7913760	267	9.8051943	166	9.8123218	433	0.1041888	30	0
15	0	9.7914512	267	9.8051445	166	9.8124517	434	0.1040776	0	46
15	1	9.7915264	267	9.8050947	166	9.8125817	433	0.1039664	30	0
16	0	9.7916016	267	9.8050450	166	9.8127116	433	0.1038552	0	45
16	1	9.7916768	267	9.8049952	166	9.8128415	433	0.1037440	30	0
17	0	9.7917520	267	9.8049453	166	9.8129714	433	0.1036328	0	44
17	1	9.7918272	266	9.8048955	166	9.8131013	433	0.1035216	30	0
18	0	9.7919024	266	9.8048457	167	9.8132312	433	0.1034104	0	43
18	1	9.7919776	267	9.8047958	166	9.8133611	433	0.1032992	30	0
19	0	9.7920528	266	9.8047459	166	9.8134910	434	0.1031880	0	42
19	1	9.7921280	266	9.8046960	166	9.8136208	433	0.1030768	30	0
20	0	9.7922032	266	9.8046461	166	9.8137507	433	0.1029656	0	41
20	1	9.7922784	267	9.8045962	166	9.8138805	433	0.1028544	30	0
21	0	9.7923536	266	9.8045463	167	9.8140104	434	0.1027432	0	40
21	1	9.7924288	266	9.8044963	166	9.8141402	433	0.1026320	30	0
22	0	9.7925040	266	9.8044463	166	9.8142700	433	0.1025208	0	39
22	1	9.7925792	266	9.8043964	167	9.8144000	433	0.1024096	30	0
23	0	9.7926544	266	9.8043464	167	9.8145298	433	0.1022984	0	38
23	1	9.7927296	266	9.8042963	166	9.8146594	433	0.1021872	30	0
24	0	9.7928048	266	9.8042463	167	9.8147892	434	0.1020760	0	37
24	1	9.7928800	266	9.8041963	167	9.8149190	434	0.1019648	30	0
25	0	9.7929552	266	9.8041463	167	9.8150487	433	0.1018536	0	36
25	1	9.7930304	266	9.8040961	166	9.8151785	434	0.1017424	30	0
26	0	9.7931056	266	9.8040461	167	9.8153082	433	0.1016312	0	35
26	1	9.7931808	266	9.8039960	167	9.8154380	434	0.1015200	30	0
27	0	9.7932560	266	9.8039458	167	9.8155677	434	0.1014088	0	34
27	1	9.7933312	266	9.8038957	167	9.8156974	434	0.1012976	30	0
28	0	9.7934064	266	9.8038455	168	9.8158271	434	0.1011864	0	33
28	1	9.7934816	265	9.8037954	167	9.8159568	434	0.1010752	30	0
29	0	9.7935568	265	9.8037452	167	9.8160865	434	0.1009640	0	32
29	1	9.7936320	265	9.8036950	167	9.8162162	434	0.1008528	30	0
30	0	9.7937072	265	9.8036448	167	9.8163459	434	0.1007416	0	31
30	1	9.7937824	265	9.8035945	167	9.8164755	433	0.1006304	30	0
31	0	9.7938576	265	9.8035444	167	9.8166052	434	0.1005192	0	30
31	1	9.7939328	265					0.1004080	30	0
32	0	9.7940080	265					0.1002968	0	29
32	1	9.7940832	265					0.1001856	30	0
33	0	9.7941584	265					0.1000744	0	28
33	1	9.7942336	265					0.0999632	30	0
34	0	9.7943088	265					0.0998520	0	27
34	1	9.7943840	265					0.0997408	30	0
35	0	9.7944592	265					0.0996296	0	26
35	1	9.7945344	265					0.0995184	30	0
36	0	9.7946096	265					0.0994072	0	25
36	1	9.7946848	265					0.0992960	30	0
37	0	9.7947600	265					0.0991848	0	24
37	1	9.7948352	265					0.0990736	30	0
38	0	9.7949104	265					0.0989624	0	23
38	1	9.7949856	265					0.0988512	30	0
39	0	9.7950608	265					0.0987400	0	22
39	1	9.7951360	265					0.0986288	30	0
40	0	9.7952112	265					0.0985176	0	21
40	1	9.7952864	265					0.0984064	30	0
41	0	9.7953616	265					0.0982952	0	20
41	1	9.7954368	265					0.0981840	30	0
42	0	9.7955120	265					0.0980728	0	19
42	1	9.7955872	265					0.0979616	30	0
43	0	9.7956624	265					0.0978504	0	18
43	1	9.7957376	265					0.0977392	30	0
44	0	9.7958128	265					0.0976280	0	17
44	1	9.7958880	265					0.0975168	30	0
45	0	9.7959632	265					0.0974056	0	16
45	1	9.7960384	265					0.0972944	30	0
46	0	9.7961136	265					0.0971832	0	15
46	1	9.7961888	265					0.0970720	30	0
47	0	9.7962640	265					0.0969608	0	14
47	1	9.7963392	265					0.0968496	30	0
48	0	9.7964144	265					0.0967384	0	13
48	1	9.7964896	265					0.0966272	30	0
49	0	9.7965648	265					0.0965160	0	12
49	1	9.7966400	265					0.0964048	30	0
50	0	9.7967152	265					0.0962936	0	11
50	1	9.7967904	265					0.0961824	30	0
51	0	9.7968656	265					0.0960712	0	10
51	1	9.7969408	265					0.0959600	30	0
52	0	9.7970160	265					0.0958488	0	9
52	1	9.7970912	265					0.0957376	30	0
53	0	9.7971664	265					0.0956264	0	8
53	1	9.7972416	265					0.0955152	30	0
54	0	9.7973168	265					0.0954040	0	7
54	1	9.7973920	265					0.0952928	30	0
55	0	9.7974672	265					0.0951816	0	6
55	1	9.7975424	265					0.0950704	30	0
56	0	9.7976176	265					0.0949592	0	5
56	1	9.7976928	265					0.0948480	30	0
57	0	9.7977680	265					0.0947368	0	4
57	1	9.7978432	265					0.0946256	30	0
58	0	9.7979184	265					0.0945144	0	3
58	1	9.7979936	265					0.0944032	30	0
59	0	9.7980688	265					0.0942920	0	2
59	1	9.7981440	265					0.0941808	30	0
60	0	9.7982192	265					0.0940696	0	1
60	1	9.7982944	265					0.0939584	30	0
61	0	9.7983696	265					0.0938472	0	0
61	1	9.7984448	265					0.0937360	30	0
62	0	9.7985200	265					0.0936248	0	59
62	1	9.7985952	265					0.0935136	30	0
63	0	9.7986704	265					0.0934024	0	58
63	1	9.7987456	265							

1	"	l. sin.	diff. 10"	l. cosin.	d. 10"	l. tang.	diff. 10"	l. cotan.	"	1
30	0	9.7941456	264	9.8036444	168	9.9006052	432	0.0993948	0	30
	30	9.7942290	264	9.8034941	167	9.9007348	433	0.0992652	0	30
31	0	9.7943083	265	9.8034439	168	9.9008645	432	0.0991355	0	29
	30	9.7943877	264	9.8033936	168	9.9009941	432	0.0990059	0	29
32	0	9.7944670	265	9.8033433	168	9.9011237	433	0.0988763	0	28
	30	9.7945463	265	9.8032930	168	9.9012534	432	0.0987466	0	28
33	0	9.7946256	264	9.8032426	167	9.9013830	432	0.0986170	0	27
	30	9.7947049	264	9.8031923	168	9.9015126	432	0.0984874	0	27
34	0	9.7947841	264	9.8031419	168	9.9016422	431	0.0983578	0	26
	30	9.7948633	264	9.8030916	168	9.9017717	432	0.0982283	0	26
35	0	9.7949426	264	9.8030412	168	9.9019013	432	0.0980987	0	25
	30	9.7950216	264	9.8029908	168	9.9020309	432	0.0979691	0	25
36	0	9.7951008	264	9.8029404	168	9.9021604	432	0.0978396	0	24
	30	9.7951799	264	9.8028900	168	9.9022900	432	0.0977100	0	24
37	0	9.7952590	263	9.8028396	168	9.9024195	432	0.0975805	0	23
	30	9.7953381	263	9.8027892	168	9.9025490	432	0.0974510	0	23
38	0	9.7954171	263	9.8027385	168	9.9026786	431	0.0973214	0	22
	30	9.7954961	264	9.8026880	168	9.9028081	431	0.0971919	0	22
39	0	9.7955751	263	9.8026375	168	9.9029376	431	0.0970624	0	21
	30	9.7956541	263	9.8025870	168	9.9030671	431	0.0969329	0	21
40	0	9.7957330	263	9.8025365	169	9.9031966	431	0.0968034	0	20
	30	9.7958120	263	9.8024859	168	9.9033260	432	0.0966740	0	20
41	0	9.7958909	263	9.8024354	169	9.9034555	432	0.0965445	0	19
	30	9.7959697	263	9.8023848	169	9.9035850	431	0.0964150	0	19
42	0	9.7960486	263	9.8023342	169	9.9037144	432	0.0962856	0	18
	30	9.7961274	263	9.8022836	169	9.9038439	431	0.0961561	0	18
43	0	9.7962062	263	9.8022329	168	9.9039733	431	0.0960267	0	17
	30	9.7962850	263	9.8021823	169	9.9041027	432	0.0958973	0	17
44	0	9.7963638	262	9.8021316	168	9.9042321	432	0.0957679	0	16
	30	9.7964425	263	9.8020810	169	9.9043616	431	0.0956384	0	16
45	0	9.7965212	263	9.8020303	169	9.9044910	431	0.0955090	0	15
	30	9.7966000	263	9.8019796	169	9.9046204	431	0.0953796	0	15
46	0	9.7966786	262	9.8019289	170	9.9047497	432	0.0952503	0	14
	30	9.7967572	262	9.8018781	169	9.9048791	431	0.0951209	0	14
47	0	9.7968359	262	9.8018274	169	9.9050085	431	0.0949915	0	13
	30	9.7969145	262	9.8017766	169	9.9051378	432	0.0948622	0	13
48	0	9.7969930	262	9.8017258	169	9.9052672	431	0.0947328	0	12
	30	9.7970716	262	9.8016750	169	9.9053965	432	0.0946035	0	12
49	0	9.7971501	262	9.8016242	169	9.9055259	431	0.0944741	0	11
	30	9.7972286	262	9.8015734	169	9.9056552	431	0.0943448	0	11
50	0	9.7973071	261	9.8015226	170	9.9057845	431	0.0942155	0	10
	30	9.7973855	261	9.8014717	169	9.9059138	431	0.0940862	0	10
51	0	9.7974640	261	9.8014208	169	9.9060431	431	0.0939569	0	9
	30	9.7975424	261	9.8013700	170	9.9061724	431	0.0938276	0	9
52	0	9.7976208	261	9.8013191	170	9.9063017	431	0.0936983	0	8
	30	9.7976991	262	9.8012681	169	9.9064310	431	0.0935690	0	8
53	0	9.7977775	261	9.8012172	170	9.9065603	431	0.0934397	0	7
	30	9.7978558	261	9.8011663	170	9.9066895	431	0.0933105	0	7
54	0	9.7979341	261	9.8011153	170	9.9068188	431	0.0931812	0	6
	30	9.7980124	261	9.8010643	170	9.9069480	431	0.0930520	0	6
55	0	9.7980906	261	9.8010133	170	9.9070773	431	0.0929227	0	5
	30	9.7981688	261	9.8009623	170	9.9072065	431	0.0927935	0	5
56	0	9.7982470	261	9.8009113	170	9.9073357	431	0.0926643	0	4
	30	9.7983252	261	9.8008603	170	9.9074649	431	0.0925351	0	4
57	0	9.7984034	260	9.8008092	170	9.9075941	431	0.0924059	0	3
	30	9.7984815	260	9.8007582	171	9.9077233	431	0.0922767	0	3
58	0	9.7985596	260	9.8007071	171	9.9078525	431	0.0921475	0	2
	30	9.7986377	260	9.8006560	171	9.9079817	431	0.0920183	0	2
59	0	9.7987158	260	9.8006049	171	9.9081109	432	0.0918891	0	1
	30	9.7987938	260	9.8005537	170	9.9082401	432	0.0917599	0	1
60	0	9.7988718		9.8005026		9.9083692		0.0916308	0	0
—	—	10"		10"		10"		—	—	—
—	"	l. cosin.	diff.	l. sin.	d.	l. cotan.	diff.	l. tang.	"	1

39 deg.

°	'	l. sin.	dif.	l. cosin.	d.	l. tang.	dif.	l. cotan.	'	°
		10''			10''		10''			
0	0	9.798718	260	9.8905026	171	9.9083692	431	0.0916308	0	60
0	30	9.798748	260	9.8904814	170	9.9084984	430	0.0915016	0	30
1	0	9.799078	259	9.8904003	171	9.9085275	430	0.0913725	0	60
1	30	9.799107	260	9.8903491	171	9.9087566	431	0.0912434	0	30
2	0	9.7991836	260	9.8902779	171	9.9088858	430	0.0911142	0	60
2	30	9.7992615	260	9.8902467	171	9.9090149	430	0.0909851	0	30
3	0	9.7993394	260	9.8901954	171	9.9091440	430	0.0908560	0	60
3	30	9.7994173	259	9.8901442	171	9.9092731	430	0.0907269	0	30
4	0	9.7994951	259	9.8900929	171	9.9094022	430	0.0905978	0	60
4	30	9.7995729	259	9.8900416	171	9.9095313	430	0.0904687	0	30
5	0	9.7996507	259	9.8899903	171	9.9096603	431	0.0903397	0	60
5	30	9.7997284	259	9.8899390	171	9.9097894	430	0.0902106	0	30
6	0	9.7998062	259	9.8898877	171	9.9099185	430	0.0900815	0	60
6	30	9.7998839	259	9.8898364	171	9.9100475	430	0.0899525	0	30
7	0	9.7999616	259	9.8897850	172	9.9101766	431	0.0898234	0	60
7	30	9.8000392	259	9.8897336	171	9.9103056	430	0.0896944	0	30
8	0	9.8001169	259	9.8896822	171	9.9104347	430	0.0895653	0	60
8	30	9.8001945	259	9.8896308	171	9.9105637	430	0.0894363	0	30
9	0	9.8002721	259	9.8895794	171	9.9106927	430	0.0893073	0	60
9	30	9.8003497	258	9.8895280	172	9.9108217	430	0.0891783	0	30
10	0	9.8004272	258	9.8894765	171	9.9109507	430	0.0890493	0	60
10	30	9.8005048	258	9.8894251	172	9.9110797	430	0.0889203	0	30
11	0	9.8005823	258	9.8893736	172	9.9112087	430	0.0887913	0	60
11	30	9.8006598	258	9.8893221	172	9.9113377	429	0.0886623	0	30
12	0	9.8007372	258	9.8892706	172	9.9114666	430	0.0885333	0	60
12	30	9.8008147	258	9.8892191	172	9.9115956	430	0.0884044	0	30
13	0	9.8008921	258	9.8891675	172	9.9117245	430	0.0882754	0	60
13	30	9.8009695	257	9.8891160	172	9.9118535	430	0.0881465	0	30
14	0	9.8010468	258	9.8890644	172	9.9119824	430	0.0880175	0	60
14	30	9.8011242	257	9.8890128	172	9.9121114	429	0.0878886	0	30
15	0	9.8012015	258	9.8889612	172	9.9122403	429	0.0877597	0	60
15	30	9.8012788	258	9.8889096	172	9.9123692	430	0.0876308	0	30
16	0	9.8013561	257	9.8888580	172	9.9124981	430	0.0875019	0	60
16	30	9.8014333	258	9.8888063	172	9.9126270	430	0.0873730	0	30
17	0	9.8015106	257	9.8887547	173	9.9127559	430	0.0872441	0	60
17	30	9.8015878	257	9.8887030	172	9.9128848	429	0.0871152	0	30
18	0	9.8016649	258	9.8886513	172	9.9130137	429	0.0869863	0	60
18	30	9.8017421	257	9.8885996	172	9.9131425	430	0.0868575	0	30
19	0	9.8018192	258	9.8885479	173	9.9132714	429	0.0867286	0	60
19	30	9.8018964	257	9.8884961	172	9.9134002	430	0.0865998	0	30
20	0	9.8019736	256	9.8884444	173	9.9135291	429	0.0864709	0	60
20	30	9.8020505	257	9.8883926	173	9.9136579	430	0.0863421	0	30
21	0	9.8021276	256	9.8883408	173	9.9137868	429	0.0862132	0	60
21	30	9.8022046	257	9.8882890	173	9.9139156	429	0.0860844	0	30
22	0	9.8022816	257	9.8882372	173	9.9140444	429	0.0859556	0	60
22	30	9.8023586	256	9.8881854	173	9.9141732	429	0.0858268	0	30
23	0	9.8024355	257	9.8881336	173	9.9143020	429	0.0856980	0	60
23	30	9.8025125	256	9.8880817	173	9.9144308	429	0.0855692	0	30
24	0	9.8025894	256	9.8880298	173	9.9145596	429	0.0854404	0	60
24	30	9.8026663	256	9.8879779	173	9.9146884	429	0.0853116	0	30
25	0	9.8027431	255	9.8879260	173	9.9148171	430	0.0851829	0	60
25	30	9.8028200	256	9.8878741	174	9.9149459	429	0.0850541	0	30
26	0	9.8028968	255	9.8878221	173	9.9150747	429	0.0849253	0	60
26	30	9.8029736	256	9.8877702	174	9.9152034	429	0.0847966	0	30
27	0	9.8030504	255	9.8877182	173	9.9153322	429	0.0846678	0	60
27	30	9.8031271	256	9.8876662	173	9.9154609	429	0.0845391	0	30
28	0	9.8032038	256	9.8876142	173	9.9155896	429	0.0844104	0	60
28	30	9.8032805	256	9.8875622	173	9.9157184	429	0.0842816	0	30
29	0	9.8033572	255	9.8875102	174	9.9158471	429	0.0841529	0	60
29	30	9.8034339	255	9.8874581	173	9.9159758	429	0.0840242	0	30
30	0	9.8035105		9.8874061		9.9161045		0.0838955	0	30
°	'	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	'	°
		10''			10''		10''			

50 deg.

°	'	L. sin.	dif. 10"	L. cosin.	d. 10"	L. tang.	dif. 10"	L. cotan.	"	'
30	0	9.8035105	265	9.8874061	174	9.9161045	409	0.0836955	0	30
30	30	9.8035971	266	9.8873540	174	9.9160338	409	0.0837562	30	30
31	0	9.8036637	266	9.8873019	174	9.9163618	409	0.0836382	0	29
31	30	9.8037403	265	9.8872498	174	9.9164405	409	0.0836955	0	28
32	0	9.8038168	265	9.8871977	174	9.9166192	409	0.0836088	0	28
32	30	9.8038934	265	9.8871455	174	9.9167479	408	0.0835221	30	27
33	0	9.8039699	265	9.8870934	174	9.9168765	408	0.0834354	0	27
33	30	9.8040464	264	9.8870412	174	9.9170052	408	0.0833487	0	26
34	0	9.8041228	265	9.8869890	174	9.9171338	408	0.0832620	0	26
34	30	9.8041992	265	9.8869368	174	9.9172624	409	0.0831753	30	25
35	0	9.8042757	264	9.8868846	174	9.9173911	408	0.0830886	0	25
35	30	9.8043520	265	9.8868324	175	9.9175197	409	0.0830019	30	24
36	0	9.8044284	265	9.8867801	174	9.9176483	409	0.0829152	0	24
36	30	9.8045047	265	9.8867278	174	9.9177769	409	0.0828285	30	23
37	0	9.8045811	264	9.8866756	175	9.9179055	409	0.0827418	0	23
37	30	9.8046574	264	9.8866233	175	9.9180341	409	0.0826551	30	22
38	0	9.8047335	265	9.8865710	175	9.9181627	408	0.0825684	0	22
38	30	9.8048099	264	9.8865186	174	9.9182913	408	0.0824817	30	21
39	0	9.8048861	264	9.8864663	175	9.9184198	409	0.0823950	0	21
39	30	9.8049623	264	9.8864139	174	9.9185484	408	0.0823083	30	20
40	0	9.8050385	264	9.8863616	175	9.9186769	409	0.0822216	0	20
40	30	9.8051147	264	9.8863092	175	9.9188055	408	0.0821349	30	19
41	0	9.8051908	264	9.8862568	175	9.9189340	409	0.0820482	0	19
41	30	9.8052669	264	9.8862044	175	9.9190626	408	0.0819615	30	18
42	0	9.8053430	264	9.8861519	175	9.9191911	408	0.0818748	0	18
42	30	9.8054191	264	9.8860995	175	9.9193196	409	0.0817881	30	17
43	0	9.8054951	264	9.8860470	175	9.9194481	409	0.0817014	0	17
43	30	9.8055712	263	9.8859945	175	9.9195766	409	0.0816147	30	16
44	0	9.8056472	263	9.8859420	175	9.9197051	409	0.0815280	0	16
44	30	9.8057232	263	9.8858895	175	9.9198336	409	0.0814413	30	15
45	0	9.8057991	263	9.8858370	175	9.9199621	408	0.0813546	0	15
45	30	9.8058751	263	9.8857846	175	9.9200906	408	0.0812679	30	14
46	0	9.8059510	263	9.8857321	175	9.9202191	408	0.0811812	0	14
46	30	9.8060269	263	9.8856796	175	9.9203475	409	0.0810945	30	13
47	0	9.8061027	263	9.8856271	175	9.9204760	408	0.0810078	0	13
47	30	9.8061785	263	9.8855746	175	9.9206044	409	0.0809211	30	12
48	0	9.8062544	263	9.8855221	175	9.9207329	408	0.0808344	0	12
48	30	9.8063302	263	9.8854696	175	9.9208613	408	0.0807477	30	11
49	0	9.8064060	262	9.8854171	175	9.9209898	408	0.0806610	0	11
49	30	9.8064817	263	9.8853646	175	9.9211182	408	0.0805743	30	10
50	0	9.8065575	262	9.8853120	175	9.9212466	408	0.0804876	0	10
50	30	9.8066332	262	9.8852595	175	9.9213750	408	0.0804009	30	9
51	0	9.8067089	262	9.8852070	175	9.9215034	408	0.0803142	0	9
51	30	9.8067846	262	9.8851545	175	9.9216318	408	0.0802275	30	8
52	0	9.8068602	262	9.8851020	175	9.9217602	408	0.0801408	0	8
52	30	9.8069358	262	9.8850495	175	9.9218886	408	0.0800541	30	7
53	0	9.8070114	262	9.8849970	175	9.9220170	408	0.0799674	0	7
53	30	9.8070870	262	9.8849445	175	9.9221453	408	0.0798807	30	6
54	0	9.8071626	261	9.8848920	175	9.9222737	408	0.0797940	0	6
54	30	9.8072381	262	9.8848395	175	9.9224020	408	0.0797073	30	5
55	0	9.8073136	262	9.8847870	175	9.9225304	408	0.0796206	0	5
55	30	9.8073891	262	9.8847345	177	9.9226587	408	0.0795339	30	4
56	0	9.8074645	261	9.8846820	175	9.9227871	408	0.0794472	0	4
56	30	9.8075400	262	9.8846295	176	9.9229154	408	0.0793605	30	3
57	0	9.8076154	262	9.8845770	176	9.9230437	408	0.0792738	0	3
57	30	9.8076908	262	9.8845245	177	9.9231720	408	0.0791871	30	2
58	0	9.8077662	261	9.8844720	177	9.9233004	407	0.0791004	0	2
58	30	9.8078416	261	9.8844195	176	9.9234287	407	0.0790137	30	1
59	0	9.8079169	261	9.8843670	176	9.9235570	407	0.0789270	0	1
59	30	9.8079922	261	9.8843145	177	9.9236853	408	0.0788403	30	0
60	0	9.8080675	261	9.8842620	10"	9.9238136	10"	0.0787536	0	0
°	'	L. sin.	dif. 10"	L. cosin.	d. 10"	L. tang.	dif. 10"	L. cotan.	"	'

40 deg.

		L. sin.	dif. 10"	L. cosin.	d. 10"	L. tang.	dif. 10"	L. cotan.			

42 deg.

°	'	l. sin.		d.	l. cosin.	d.	l. tang.	d.	l. cotan.	°	'
		10"	10"	10"	10"	10"	10"	10"	10"		
0	0	9.8255109	234	9.8710725	190	9.0544374	404	0.0455626	0	60	
0	30	9.8255810	233	9.8710166	190	9.0545545	403	0.0454455	0	30	
1	0	9.8256512	233	9.8709597	190	9.0546715	403	0.0453285	0	59	
1	30	9.8257213	233	9.8709028	190	9.0547885	404	0.0452115	0	58	
2	0	9.8257913	234	9.8708458	190	9.0549055	404	0.0450945	0	57	
2	30	9.8258614	234	9.8707889	190	9.0550225	404	0.0449775	0	56	
3	0	9.8259314	234	9.8707319	190	9.0551395	404	0.0448605	0	55	
3	30	9.8260015	233	9.8706749	190	9.0552565	404	0.0447435	0	54	
4	0	9.8260715	233	9.8706179	190	9.0553735	404	0.0446265	0	53	
4	30	9.8261414	234	9.8705609	190	9.0554905	404	0.0445095	0	52	
5	0	9.8262114	233	9.8705039	190	9.0556075	403	0.0443925	0	51	
5	30	9.8262813	233	9.8704468	190	9.0557245	403	0.0442755	0	50	
6	0	9.8263512	234	9.8703898	191	9.0558415	403	0.0441585	0	49	
6	30	9.8264211	233	9.8703327	191	9.0559585	403	0.0440415	0	48	
7	0	9.8264910	233	9.8702757	191	9.0560755	403	0.0439245	0	47	
7	30	9.8265609	233	9.8702187	191	9.0561925	403	0.0438075	0	46	
8	0	9.8266307	233	9.8701613	191	9.0563095	403	0.0436905	0	45	
8	30	9.8267005	233	9.8701042	191	9.0564265	403	0.0435735	0	44	
9	0	9.8267703	233	9.8700470	191	9.0565435	403	0.0434565	0	43	
9	30	9.8268401	232	9.8699898	190	9.0566605	403	0.0433395	0	42	
10	0	9.8269098	232	9.8699328	190	9.0567775	403	0.0432225	0	41	
10	30	9.8269795	232	9.8698754	191	9.0568945	403	0.0431055	0	40	
11	0	9.8270493	232	9.8698182	191	9.0570115	403	0.0429885	0	39	
11	30	9.8271190	232	9.8697609	191	9.0571285	403	0.0428715	0	38	
12	0	9.8271887	232	9.8697037	191	9.0572455	403	0.0427545	0	37	
12	30	9.8272583	232	9.8696464	191	9.0573625	403	0.0426375	0	36	
13	0	9.8273279	232	9.8695891	191	9.0574795	403	0.0425205	0	35	
13	30	9.8273976	232	9.8695318	191	9.0575965	403	0.0424035	0	34	
14	0	9.8274671	232	9.8694744	191	9.0577135	403	0.0422865	0	33	
14	30	9.8275367	232	9.8694171	191	9.0578305	403	0.0421695	0	32	
15	0	9.8276063	231	9.8693597	191	9.0579475	403	0.0420525	0	31	
15	30	9.8276758	232	9.8693023	191	9.0580645	403	0.0419355	0	30	
16	0	9.8277453	232	9.8692449	191	9.0581815	403	0.0418185	0	29	
16	30	9.8278148	232	9.8691875	191	9.0582985	403	0.0417015	0	28	
17	0	9.8278843	231	9.8691301	192	9.0584155	403	0.0415845	0	27	
17	30	9.8279537	232	9.8690726	191	9.0585325	403	0.0414675	0	26	
18	0	9.8280231	232	9.8690152	192	9.0586495	403	0.0413505	0	25	
18	30	9.8280925	232	9.8689577	192	9.0587665	403	0.0412335	0	24	
19	0	9.8281619	232	9.8689002	192	9.0588835	403	0.0411165	0	23	
19	30	9.8282313	232	9.8688427	192	9.0590005	403	0.0410000	0	22	
20	0	9.8283006	232	9.8687851	192	9.0591175	403	0.0408830	0	21	
20	30	9.8283700	231	9.8687276	192	9.0592345	403	0.0407660	0	20	
21	0	9.8284393	231	9.8686700	192	9.0593515	403	0.0406490	0	19	
21	30	9.8285086	231	9.8686124	192	9.0594685	403	0.0405320	0	18	
22	0	9.8285778	231	9.8685548	192	9.0595855	403	0.0404150	0	17	
22	30	9.8286471	231	9.8684972	192	9.0597025	403	0.0402980	0	16	
23	0	9.8287163	231	9.8684396	193	9.0598195	403	0.0401810	0	15	
23	30	9.8287855	231	9.8683819	192	9.0599365	403	0.0400640	0	14	
24	0	9.8288547	231	9.8683242	192	9.0600535	403	0.0399470	0	13	
24	30	9.8289239	230	9.8682665	192	9.0601705	403	0.0398300	0	12	
25	0	9.8289930	231	9.8682088	192	9.0602875	403	0.0397130	0	11	
25	30	9.8290621	231	9.8681511	192	9.0604045	403	0.0395960	0	10	
26	0	9.8291312	231	9.8680934	192	9.0605215	403	0.0394790	0	9	
26	30	9.8292003	230	9.8680356	193	9.0606385	403	0.0393620	0	8	
27	0	9.8292694	230	9.8679779	192	9.0607555	403	0.0392450	0	7	
27	30	9.8293384	230	9.8679201	193	9.0608725	403	0.0391280	0	6	
28	0	9.8294075	230	9.8678623	193	9.0609895	403	0.0390110	0	5	
28	30	9.8294765	230	9.8678045	193	9.0611065	403	0.0388940	0	4	
29	0	9.8295456	230	9.8677466	193	9.0612235	403	0.0387770	0	3	
29	30	9.8296144	230	9.8676888	193	9.0613405	403	0.0386600	0	2	
30	0	9.8296833	230	9.8676309	193	9.0614575	403	0.0385430	0	1	
30	30										
10"		10"		10"		10"		10"		10"	
l. cosin.		dif.		l. sin.		d.		l. cotan.		dif.	
10"		10"		10"		10"		10"		10"	
10"		10"		10"		10"		10"		10"	

47 deg.

I	N	l. sin.	diff. 10"	l. cosin.	d. 10"	l. tang.	d. 10"	l. cotan.	N	I
30	0	9.8998833	230	9.8676309	193	9.9680855	422	0.0379475	0	30
	30	9.8997923	229	9.8675750	193	9.9681793	422	0.0378577	30	29
31	0	9.8997011	229	9.8675151	193	9.9682681	423	0.0377679	30	28
	30	9.8996099	229	9.8674572	193	9.9683569	423	0.0376781	30	27
32	0	9.8995187	229	9.8673992	193	9.9684457	423	0.0375883	30	26
	30	9.8994275	229	9.8673413	194	9.9685345	423	0.0374985	30	25
33	0	9.8993363	229	9.8672833	193	9.9686233	423	0.0374087	30	24
	30	9.8992451	229	9.8672253	193	9.9687121	422	0.0373189	30	23
34	0	9.8991539	229	9.8671673	193	9.9688009	422	0.0372291	30	22
	30	9.8990627	229	9.8671093	194	9.9688897	422	0.0371393	30	21
35	0	9.8989715	229	9.8670512	193	9.9689785	423	0.0370495	30	20
	30	9.8988803	229	9.8669932	194	9.9690673	423	0.0369597	30	19
36	0	9.8987891	229	9.8669351	194	9.9691561	423	0.0368699	30	18
	30	9.8986979	229	9.8668770	194	9.9692449	423	0.0367801	30	17
37	0	9.8986067	229	9.8668189	194	9.9693337	423	0.0366903	30	16
	30	9.8985155	229	9.8667608	194	9.9694225	423	0.0366005	30	15
38	0	9.8984243	229	9.8667027	194	9.9695113	422	0.0365107	30	14
	30	9.8983331	229	9.8666445	194	9.9696001	422	0.0364209	30	13
39	0	9.8982419	228	9.8665863	194	9.9696889	422	0.0363311	30	12
	30	9.8981507	229	9.8665281	194	9.9697777	422	0.0362413	30	11
40	0	9.8980595	228	9.8664699	194	9.9698665	423	0.0361515	30	10
	30	9.8979683	228	9.8664117	195	9.9699553	422	0.0360617	30	9
41	0	9.8978771	228	9.8663534	194	9.9700441	422	0.0359719	30	8
	30	9.8977859	228	9.8662952	195	9.9701329	423	0.0358821	30	7
42	0	9.8976947	228	9.8662369	195	9.9702217	422	0.0357923	30	6
	30	9.8976035	228	9.8661786	195	9.9703105	423	0.0357025	30	5
43	0	9.8975123	228	9.8661203	195	9.9703993	422	0.0356127	30	4
	30	9.8974211	228	9.8660619	195	9.9704881	422	0.0355229	30	3
44	0	9.8973299	228	9.8660036	194	9.9705769	423	0.0354331	30	2
	30	9.8972387	228	9.8659452	194	9.9706657	423	0.0353433	30	1
45	0	9.8971475	228	9.8658868	194	9.9707545	422	0.0352535	30	0
	30	9.8970563	228	9.8658284	194	9.9708433	422	0.0351637	30	
46	0	9.8969651	228	9.8657700	194	9.9709321	422	0.0350739	30	
	30	9.8968739	228	9.8657116	195	9.9710209	423	0.0349841	30	
47	0	9.8967827	227	9.8656531	194	9.9711097	423	0.0348943	30	
	30	9.8966915	228	9.8655947	195	9.9711985	423	0.0348045	30	
48	0	9.8966003	228	9.8655362	195	9.9712873	423	0.0347147	30	
	30	9.8965091	228	9.8654777	195	9.9713761	422	0.0346249	30	
49	0	9.8964179	228	9.8654192	195	9.9714649	422	0.0345351	30	
	30	9.8963267	227	9.8653606	195	9.9715537	423	0.0344453	30	
50	0	9.8962355	227	9.8653021	195	9.9716425	423	0.0343555	30	
	30	9.8961443	227	9.8652435	195	9.9717313	423	0.0342657	30	
51	0	9.8960531	227	9.8651849	195	9.9718201	423	0.0341759	30	
	30	9.8959619	227	9.8651263	195	9.9719089	422	0.0340861	30	
52	0	9.8958707	227	9.8650677	195	9.9719977	422	0.0339963	30	
	30	9.8957795	226	9.8650091	195	9.9720865	422	0.0339065	30	
53	0	9.8956883	226	9.8649504	195	9.9721753	422	0.0338167	30	
	30	9.8955971	226	9.8648918	195	9.9722641	423	0.0337269	30	
54	0	9.8955059	226	9.8648331	195	9.9723529	422	0.0336371	30	
	30	9.8954147	227	9.8647744	195	9.9724417	422	0.0335473	30	
55	0	9.8953235	226	9.8647156	195	9.9725305	423	0.0334575	30	
	30	9.8952323	226	9.8646569	195	9.9726193	422	0.0333677	30	
56	0	9.8951411	226	9.8645981	195	9.9727081	422	0.0332779	30	
	30	9.8950499	226	9.8645394	195	9.9727969	422	0.0331881	30	
57	0	9.8949587	226	9.8644806	195	9.9728857	422	0.0330983	30	
	30	9.8948675	226	9.8644218	195	9.9729745	423	0.0330085	30	
58	0	9.8947763	226	9.8643629	195	9.9730633	422	0.0329187	30	
	30	9.8946851	226	9.8643041	195	9.9731521	423	0.0328289	30	
59	0	9.8945939	226	9.8642452	195	9.9732409	422	0.0327391	30	
	30	9.8945027	226	9.8641864	197	9.9733297	422	0.0326493	30	
60	0	9.8944115	226	9.8641275		9.9734185		0.0325595	30	
	30	9.8943203	10"		10"		10"		30	
I	N	l. cosin.	diff.	l. sin.	d.	l. cotan.	diff.	l. tang.	N	I

°	'	l. sin.	diff. 10"	l. cosin.	d. 10"	l. tang.	diff. 10"	l. cotan.	°	'
0	0	0.8337833	225	0.8641275	197	0.9666659	422	0.0303441	0	60
30	0	0.8336151	225	0.8640686	197	0.9677825	422	0.0302175	30	
1	0	0.8335188	225	0.8640096	196	0.9689091	423	0.0300909	0	59
30	0	0.8334865	225	0.8639507	196	0.9700358	422	0.0299642	30	
8	0	0.8340511	225	0.8638917	196	0.9711624	422	0.0298376	0	58
30	0	0.8341818	225	0.8638327	196	0.9722890	422	0.0297110	30	
3	0	0.8341894	225	0.8637737	196	0.9734157	422	0.0295844	0	57
30	0	0.8342570	225	0.8637147	197	0.9745423	422	0.0294577	30	
4	0	0.8343045	225	0.8636557	197	0.9756689	422	0.0293311	0	56
30	0	0.8343922	225	0.8635966	197	0.9767955	422	0.0292045	30	
8	0	0.8344577	225	0.8635376	197	0.9779221	422	0.0290779	0	55
30	0	0.8345272	225	0.8634785	197	0.9790487	423	0.0289513	30	
6	0	0.8345458	225	0.8634194	197	0.9791754	422	0.0288246	0	54
30	0	0.8346222	225	0.8633603	197	0.9793020	422	0.0286980	30	
7	0	0.8347297	225	0.8633011	197	0.9794286	422	0.0285714	0	53
30	0	0.8347772	224	0.8632420	197	0.9795552	422	0.0284448	30	
8	0	0.8348445	225	0.8631828	197	0.9796818	422	0.0283182	0	52
30	0	0.8349300	225	0.8631236	197	0.9798084	422	0.0281916	30	
9	0	0.8349991	225	0.8630644	197	0.9799350	422	0.0280650	0	51
30	0	0.8350568	224	0.8630052	197	0.9799616	422	0.0279384	30	
10	0	0.8351341	225	0.8629460	198	0.9799882	422	0.0278118	0	50
30	0	0.8352015	224	0.8628867	197	0.9799447	422	0.0276853	30	
11	0	0.8352698	224	0.8628274	198	0.9799413	422	0.0275587	0	49
30	0	0.8353361	224	0.8627681	197	0.9799379	422	0.0274321	30	
12	0	0.8354033	224	0.8627088	197	0.9799345	422	0.0273055	0	48
30	0	0.8354705	224	0.8626495	198	0.9799311	422	0.0271789	30	
13	0	0.8355378	224	0.8625902	198	0.9799277	421	0.0270523	0	47
30	0	0.8356050	224	0.8625308	198	0.9799243	421	0.0269258	30	
14	0	0.8356722	224	0.8624714	198	0.9799208	421	0.0267992	0	46
30	0	0.8357394	224	0.8624120	198	0.9799174	421	0.0266726	30	
15	0	0.8358065	224	0.8623526	198	0.9799139	421	0.0265461	0	45
30	0	0.8358737	224	0.8622932	198	0.9799105	421	0.0264195	30	
16	0	0.8359408	224	0.8622338	198	0.9799071	421	0.0262929	0	44
30	0	0.8360079	224	0.8621743	198	0.9799036	421	0.0261664	30	
17	0	0.8360750	224	0.8621148	198	0.9799002	421	0.0260398	0	43
30	0	0.8361421	223	0.8620553	198	0.9798968	421	0.0259132	30	
18	0	0.8362091	223	0.8619958	198	0.9798933	421	0.0257866	0	42
30	0	0.8362762	224	0.8619363	199	0.9798899	421	0.0256601	30	
19	0	0.8363431	224	0.8618767	199	0.9798864	421	0.0255336	0	41
30	0	0.8364101	223	0.8618171	199	0.9798830	421	0.0254070	30	
20	0	0.8364771	223	0.8617576	199	0.9798795	421	0.0252805	0	40
30	0	0.8365440	223	0.8616980	199	0.9798761	421	0.0251539	30	
21	0	0.8366109	223	0.8616383	198	0.9798726	421	0.0250274	0	39
30	0	0.8366777	223	0.8615787	199	0.9798691	421	0.0249009	30	
22	0	0.8367447	223	0.8615190	198	0.9798657	421	0.0247743	0	38
30	0	0.8368116	223	0.8614594	199	0.9798622	421	0.0246478	30	
23	0	0.8368784	223	0.8613997	199	0.9798587	421	0.0245213	0	37
30	0	0.8369452	223	0.8613400	199	0.9798553	421	0.0243947	30	
24	0	0.8370121	222	0.8612803	200	0.9798518	421	0.0242682	0	36
30	0	0.8370788	223	0.8612205	199	0.9798483	421	0.0241417	30	
25	0	0.8371456	222	0.8611608	199	0.9798449	421	0.0240151	0	35
30	0	0.8372124	222	0.8611010	199	0.9798414	421	0.0238886	30	
26	0	0.8372791	222	0.8610412	200	0.9798379	421	0.0237620	0	34
30	0	0.8373458	222	0.8609814	199	0.9798344	421	0.0236355	30	
27	0	0.8374125	222	0.8609215	199	0.9798309	421	0.0235090	0	33
30	0	0.8374791	222	0.8608617	199	0.9798274	421	0.0233825	30	
28	0	0.8375458	222	0.8608018	199	0.9798239	421	0.0232560	0	32
30	0	0.8376124	222	0.8607420	199	0.9798204	421	0.0231295	30	
29	0	0.8376790	222	0.8606821	199	0.9798169	421	0.0230030	0	31
30	0	0.8377456	222	0.8606222	199	0.9798135	421	0.0228765	30	
30	0	0.8378122	222	0.8605622	199	0.9798100	421	0.0227500	0	30
°	°	l. cosin.	diff.	l. sin.	d.	l. cotan.	diff.	l. tang.	°	°

i	#	L. sin.	diff	L. cosin.	d.	L. tang.	diff	L. cotan.	#	i
		10"		10"		10"		10"		
30	0	9.8378122	222	9.8606622	200	9.9772600	422	0.0227800	0	30
	30	9.8378788	221	9.8606023	200	9.9773766	422	0.0226535	30	
31	0	9.8379453	222	9.8605423	200	9.9775030	422	0.0225270	0	30
	30	9.8380118	222	9.8604823	200	9.9776295	422	0.0224005	30	
32	0	9.8380783	222	9.8604223	200	9.9777560	422	0.0222740	0	30
	30	9.8381448	221	9.8603623	200	9.9778825	422	0.0221475	30	
33	0	9.8382113	222	9.8603023	200	9.9780090	422	0.0220210	0	30
	30	9.8382777	221	9.8602423	200	9.9781355	422	0.0218945	30	
34	0	9.8383441	221	9.8601823	200	9.9782620	421	0.0217680	0	30
	30	9.8384105	221	9.8601223	200	9.9783885	421	0.0216415	30	
35	0	9.8384769	221	9.8599619	200	9.9785149	422	0.0215150	0	30
	30	9.8385433	221	9.8599018	201	9.9786414	422	0.0213885	30	
36	0	9.8386096	221	9.8598416	200	9.9787679	422	0.0212620	0	30
	30	9.8386759	221	9.8597815	201	9.9788944	422	0.0211355	30	
37	0	9.8387422	221	9.8597213	201	9.9790209	421	0.0210090	0	30
	30	9.8388085	221	9.8596611	201	9.9791474	421	0.0208825	30	
38	0	9.8388747	221	9.8596009	201	9.9792738	422	0.0207560	0	30
	30	9.8389410	221	9.8595407	201	9.9794003	422	0.0206295	30	
39	0	9.8390072	221	9.8594804	201	9.9795268	421	0.0205030	0	30
	30	9.8390734	221	9.8594202	201	9.9796532	422	0.0203765	30	
40	0	9.8391396	220	9.8593599	201	9.9797797	422	0.0202500	0	30
	30	9.8392058	220	9.8592996	201	9.9799062	421	0.0201235	30	
41	0	9.8392719	220	9.8592393	202	9.9800326	422	0.0199970	0	30
	30	9.8393380	220	9.8591789	201	9.9801591	422	0.0198705	30	
42	0	9.8394041	221	9.8591185	202	9.9802855	421	0.0197440	0	30
	30	9.8394702	221	9.8590582	201	9.9804120	422	0.0196175	30	
43	0	9.8395363	220	9.8589978	201	9.9805385	421	0.0194910	0	30
	30	9.8396023	221	9.8589374	201	9.9806650	421	0.0193645	30	
44	0	9.8396684	220	9.8588770	202	9.9807914	422	0.0192380	0	30
	30	9.8397344	220	9.8588166	202	9.9809179	421	0.0191115	30	
45	0	9.8398004	220	9.8587561	202	9.9810443	422	0.0189850	0	30
	30	9.8398664	219	9.8586955	202	9.9811708	421	0.0188585	30	
46	0	9.8399323	220	9.8586351	202	9.9812972	422	0.0187320	0	30
	30	9.8399982	220	9.8585746	202	9.9814237	421	0.0186055	30	
47	0	9.8400642	219	9.8585141	202	9.9815501	422	0.0184790	0	30
	30	9.8401301	219	9.8584535	202	9.9816766	421	0.0183525	30	
48	0	9.8401959	220	9.8583929	201	9.9818030	421	0.0182260	0	30
	30	9.8402618	219	9.8583324	202	9.9819294	422	0.0181000	30	
49	0	9.8403276	220	9.8582718	202	9.9820558	421	0.0179735	0	30
	30	9.8403935	219	9.8582111	202	9.9821822	422	0.0178470	30	
50	0	9.8404593	219	9.8581505	202	9.9823087	422	0.0177205	0	30
	30	9.8405250	220	9.8580899	203	9.9824351	421	0.0175940	30	
51	0	9.8405908	220	9.8580292	202	9.9825615	422	0.0174675	0	30
	30	9.8406565	219	9.8579685	202	9.9826879	421	0.0173410	30	
52	0	9.8407222	219	9.8579078	202	9.9828143	421	0.0172145	0	30
	30	9.8407880	219	9.8578471	203	9.9829407	422	0.0170880	30	
53	0	9.8408537	219	9.8577863	202	9.9830671	422	0.0169615	0	30
	30	9.8409193	219	9.8577255	203	9.9831935	421	0.0168350	30	
54	0	9.8409850	219	9.8576648	203	9.9833200	421	0.0167085	0	30
	30	9.8410506	219	9.8576040	203	9.9834464	422	0.0165820	30	
55	0	9.8411162	219	9.8575432	203	9.9835728	422	0.0164555	0	30
	30	9.8411818	219	9.8574824	203	9.9836992	421	0.0163290	30	
56	0	9.8412474	218	9.8574215	203	9.9838256	422	0.0162025	0	30
	30	9.8413129	219	9.8573606	203	9.9839520	421	0.0160760	30	
57	0	9.8413785	218	9.8573000	203	9.9840784	421	0.0159495	0	30
	30	9.8414440	218	9.8572390	203	9.9842048	422	0.0158230	30	
58	0	9.8415095	218	9.8571779	203	9.9843312	422	0.0156965	0	30
	30	9.8415750	218	9.8571170	203	9.9844576	421	0.0155700	30	
59	0	9.8416404	218	9.8570561	203	9.9845840	421	0.0154435	0	30
	30	9.8417059	218	9.8569951	203	9.9847104	422	0.0153170	30	
60	0	9.8417713		9.8569341		9.9848368		0.0151905	0	30
			10"		10"		10"			
	#	L. cosin.	diff.	L. sin.	d.	L. cotan.	diff.	L. tang.	#	

"	'	L. sin.	diff. 10"	L. cosin.	d. 10"	L. tang.	diff. 10"	L. cotan.	"
0	0	9.8417773	218	9.8565341	204	9.9848373	421	0.0151628	0 60
	30	9.8418367	218	9.8565831	204	9.9849636	421	0.0150664	0 30
1	0	9.8419021	217	9.8566121	204	9.9850900	421	0.0149108	0 59
	30	9.8419674	217	9.8566510	204	9.9852164	421	0.0147836	0 30
2	0	9.8420328	217	9.8566900	204	9.9853428	421	0.0146572	0 58
	30	9.8420981	218	9.8567389	204	9.9854692	421	0.0145308	0 30
3	0	9.8421634	218	9.8567878	204	9.9855956	421	0.0144044	0 57
	30	9.8422287	218	9.8568367	204	9.9857220	421	0.0142780	0 30
4	0	9.8422939	217	9.8568855	204	9.9858484	421	0.0141516	0 56
	30	9.8423592	217	9.8569344	204	9.9859748	421	0.0140252	0 30
5	0	9.8424244	218	9.8569833	204	9.9861012	421	0.0138988	0 55
	30	9.8424896	218	9.8570322	204	9.9862276	421	0.0137724	0 30
6	0	9.8425548	217	9.8570810	204	9.9863540	421	0.0136460	0 54
	30	9.8426200	217	9.8571299	204	9.9864804	421	0.0135196	0 30
7	0	9.8426851	218	9.8571788	204	9.9866068	421	0.0133932	0 53
	30	9.8427503	217	9.8572277	204	9.9867332	421	0.0132668	0 30
8	0	9.8428154	217	9.8572766	204	9.9868596	421	0.0131404	0 52
	30	9.8428806	217	9.8573255	204	9.9869860	422	0.0130140	0 30
9	0	9.8429456	217	9.8573744	204	9.9871124	422	0.0128876	0 51
	30	9.8430106	217	9.8574233	204	9.9872388	421	0.0127613	0 30
10	0	9.8430757	216	9.8574722	205	9.9873652	421	0.0126349	0 50
	30	9.8431407	217	9.8575211	205	9.9874916	421	0.0125085	0 30
11	0	9.8432057	217	9.8575700	204	9.9876180	421	0.0123821	0 49
	30	9.8432707	216	9.8576189	204	9.9877444	421	0.0122557	0 30
12	0	9.8433356	217	9.8576678	205	9.9878708	422	0.0121293	0 48
	30	9.8434006	216	9.8577167	205	9.9879972	421	0.0120029	0 30
13	0	9.8434655	217	9.8577656	204	9.9881236	421	0.0118765	0 47
	30	9.8435304	216	9.8578145	204	9.9882500	421	0.0117501	0 30
14	0	9.8435953	216	9.8578634	205	9.9883764	422	0.0116237	0 46
	30	9.8436602	216	9.8579123	205	9.9885028	421	0.0114973	0 30
15	0	9.8437250	216	9.8579612	205	9.9886292	421	0.0113709	0 45
	30	9.8437900	216	9.8580101	205	9.9887556	421	0.0112445	0 30
16	0	9.8438547	216	9.8580590	205	9.9888820	421	0.0111181	0 44
	30	9.8439196	216	9.8581079	205	9.9890084	421	0.0109917	0 30
17	0	9.8439844	216	9.8581568	206	9.9891348	421	0.0108653	0 43
	30	9.8440490	216	9.8582057	205	9.9892612	421	0.0107389	0 30
18	0	9.8441137	216	9.8582546	206	9.9893876	422	0.0106125	0 42
	30	9.8441785	215	9.8583035	206	9.9895140	421	0.0104861	0 30
19	0	9.8442433	215	9.8583524	206	9.9896404	421	0.0103597	0 41
	30	9.8443078	216	9.8584013	206	9.9897668	422	0.0102333	0 30
20	0	9.8443725	215	9.8584502	206	9.9898932	421	0.0101069	0 40
	30	9.8444371	215	9.8584991	206	9.9900196	421	0.0099805	0 30
21	0	9.8445018	215	9.8585480	206	9.9901460	421	0.0098541	0 39
	30	9.8445664	215	9.8585969	206	9.9902724	421	0.0097277	0 30
22	0	9.8446310	215	9.8586458	206	9.9903988	421	0.0096013	0 38
	30	9.8446955	215	9.8586947	206	9.9905252	421	0.0094749	0 30
23	0	9.8447601	215	9.8587436	206	9.9906516	421	0.0093485	0 37
	30	9.8448246	215	9.8587925	206	9.9907780	422	0.0092221	0 36
24	0	9.8448891	215	9.8588414	206	9.9909044	421	0.0090957	0 35
	30	9.8449536	215	9.8588903	207	9.9910308	421	0.0089693	0 30
25	0	9.8450181	215	9.8589392	207	9.9911572	421	0.0088429	0 35
	30	9.8450826	215	9.8589881	207	9.9912836	421	0.0087165	0 34
26	0	9.8451470	215	9.8590370	207	9.9914100	421	0.0085901	0 30
	30	9.8452114	215	9.8590859	206	9.9915364	421	0.0084637	0 30
27	0	9.8452758	215	9.8591348	207	9.9916628	422	0.0083373	0 33
	30	9.8453402	214	9.8591837	207	9.9917892	421	0.0082109	0 30
28	0	9.8454045	215	9.8592326	207	9.9919156	422	0.0080845	0 32
	30	9.8454689	214	9.8592815	207	9.9920420	421	0.0079581	0 30
29	0	9.8455333	214	9.8593304	207	9.9921684	422	0.0078317	0 31
	30	9.8455977	214	9.8593793	207	9.9922948	421	0.0077053	0 30
30	0	9.8456621	214	9.8594282	207	9.9924212	421	0.0075789	0 30
	30	9.8456618	214	9.8594771	207	9.9925476	421	0.0074525	0 30
"	"	L. sin.	diff.	L. cosin.	d.	L. cotan.	diff.	L. tang.	"

1	"	l. sin.	dif.	l. cosin.	d.	l. tang.	dif.	l. cotan.	"	1
		10'		10'	10'	10'		10'		
30	0	9.8456618	214	9.8534421	207	9.9984197	422	0.0075803	0	30
	30	9.8457861	214	9.8531800	207	9.9985461	421	0.0074539	0	30
31	0	9.8459093	214	9.8529179	207	9.9986784	422	0.0073276	0	29
	30	9.8460345	215	9.8526558	208	9.9987988	421	0.0072012	0	30
32	0	9.8461588	214	9.8523936	207	9.9989251	422	0.0070749	0	28
	30	9.8462830	213	9.8521315	208	9.9990515	421	0.0069485	0	30
33	0	9.8464071	214	9.8518693	207	9.9991778	422	0.0068222	0	27
	30	9.8465313	214	9.8516071	207	9.9993042	421	0.0066958	0	30
34	0	9.8466554	214	9.8513449	207	9.9994305	421	0.0065695	0	26
	30	9.8467796	214	9.8510827	208	9.9995569	421	0.0064431	0	30
35	0	9.8469036	214	9.8508204	207	9.9996832	421	0.0063168	0	25
	30	9.8470277	214	9.8505582	208	9.9998096	421	0.0061904	0	30
36	0	9.8471518	213	9.8502959	208	9.9999359	421	0.0060641	0	24
	30	9.8472759	213	9.8500336	208	9.9940623	421	0.0059377	0	30
37	0	9.8474000	213	9.8497713	208	9.9941886	421	0.0058114	0	23
	30	9.8475241	213	9.8495089	208	9.9943149	422	0.0056851	0	30
38	0	9.8476482	213	9.8492466	208	9.9944413	421	0.0055587	0	22
	30	9.8477723	213	9.8489842	208	9.9945676	421	0.0054324	0	30
39	0	9.8478964	213	9.8487218	208	9.9946940	421	0.0053060	0	21
	30	9.8480205	213	9.8484594	208	9.9948203	421	0.0051797	0	30
40	0	9.8481446	213	9.8481970	208	9.9949466	422	0.0050534	0	20
	30	9.8482687	213	9.8479345	208	9.9950730	421	0.0049270	0	30
41	0	9.8483928	213	9.8476721	208	9.9951993	421	0.0048007	0	19
	30	9.8485169	212	9.8474096	208	9.9953257	421	0.0046743	0	30
42	0	9.8486410	212	9.8471471	208	9.9954520	421	0.0045480	0	18
	30	9.8487651	213	9.8468846	208	9.9955783	421	0.0044217	0	30
43	0	9.8488892	213	9.8466222	208	9.9957047	421	0.0042953	0	17
	30	9.8490133	213	9.8463597	208	9.9958310	421	0.0041690	0	30
44	0	9.8491374	212	9.8460972	208	9.9959573	422	0.0040427	0	16
	30	9.8492615	213	9.8458347	208	9.9960837	421	0.0039163	0	30
45	0	9.8493856	212	9.8455721	208	9.9962100	421	0.0037900	0	15
	30	9.8495097	212	9.8453096	208	9.9963364	421	0.0036636	0	30
46	0	9.8496338	212	9.8450470	208	9.9964627	421	0.0035373	0	14
	30	9.8497579	212	9.8447845	208	9.9965890	421	0.0034110	0	30
47	0	9.8498820	212	9.8445219	208	9.9967154	422	0.0032846	0	13
	30	9.8499061	212	9.8442594	208	9.9968417	421	0.0031583	0	30
48	0	9.8500302	212	9.8440000	208	9.9969680	421	0.0030320	0	12
	30	9.8501543	212	9.8437405	210	9.9970944	421	0.0029056	0	30
49	0	9.8502784	212	9.8434810	209	9.9972207	421	0.0027793	0	11
	30	9.8504025	211	9.8432215	209	9.9973470	421	0.0026530	0	30
50	0	9.8505266	212	9.8429620	209	9.9974734	421	0.0025266	0	10
	30	9.8506507	212	9.8427025	209	9.9975997	421	0.0024003	0	30
51	0	9.8507748	212	9.8424430	209	9.9977260	421	0.0022740	0	9
	30	9.8508989	212	9.8421835	210	9.9978524	421	0.0021476	0	30
52	0	9.8510230	211	9.8419240	210	9.9979787	421	0.0020213	0	8
	30	9.8511471	212	9.8416645	209	9.9981050	421	0.0018950	0	30
53	0	9.8512712	211	9.8414050	209	9.9982314	421	0.0017686	0	7
	30	9.8513953	211	9.8411455	210	9.9983577	421	0.0016423	0	30
54	0	9.8515194	211	9.8408860	210	9.9984840	421	0.0015160	0	6
	30	9.8516435	211	9.8406265	210	9.9986104	421	0.0013896	0	30
55	0	9.8517676	211	9.8403670	210	9.9987367	421	0.0012633	0	5
	30	9.8518917	211	9.8401075	210	9.9988630	421	0.0011370	0	30
56	0	9.8520158	211	9.8398480	210	9.9989893	422	0.0010107	0	4
	30	9.8521399	211	9.8395885	211	9.9991157	421	0.0008843	0	30
57	0	9.8522640	211	9.8393290	211	9.9992420	421	0.0007580	0	3
	30	9.8523881	211	9.8390695	210	9.9993683	422	0.0006317	0	30
58	0	9.8525122	211	9.8388100	210	9.9994947	421	0.0005053	0	2
	30	9.8526363	211	9.8385505	210	9.9996210	421	0.0003790	0	30
59	0	9.8527604	211	9.8382910	210	9.9997473	421	0.0002527	0	1
	30	9.8528845	211	9.8380315	211	9.9998737	421	0.0001263	0	30
60	0	9.8530086	211	9.8377720	211	0.0000000	0	0.0000000	0	0
	30	9.8531327	211	9.8375125	211	0.0000000	0	0.0000000	0	30
1	"	l. cosin.	dif.	l. sin.	d.	l. cotan.	dif.	l. tang.	"	1

SINUS NATURELES

AD TRICENAS SECUNDAS.

NATURAL SINES

TO EVERY THIRTY SECONDS.

SINUS NATURELS

DE TRENTÉ EN TRENTÉ SECONDES.

NATUERLICHE SINUSSE

ZU JE DREISSIG SECUNDEN.

SENOS NATURELES

PARA CADA 30''

0 deg.

	sin.	diff. 10"	co-sin.	diff. 10"		sin.	diff. 10"	co-sin.	diff. 10"
0'	0,0000000	484,8	1,0000000	0,0	60'	0,00897265	484,8	0,9999999	30'
1'	0,0000001		1,0000000	0,1	61'	0,00897265		0,9999999	29'
2'	0,0000002		1,0000000	0,2	62'	0,00897265		0,9999999	28'
3'	0,0000003		1,0000000	0,3	63'	0,00897265		0,9999999	27'
4'	0,0000004		0,9999999	0,4	64'	0,00897265		0,9999999	26'
5'	0,0000005		0,9999999	0,5	65'	0,00897265		0,9999999	25'
6'	0,0000006		0,9999999	0,6	66'	0,00897265		0,9999999	24'
7'	0,0000007		0,9999999	0,7	67'	0,00897265		0,9999999	23'
8'	0,0000008		0,9999999	0,8	68'	0,00897265		0,9999999	22'
9'	0,0000009		0,9999999	0,9	69'	0,00897265		0,9999999	21'
10'	0,0000010		0,9999999	1,0	70'	0,00897265		0,9999999	20'
11'	0,0000011		0,9999999	1,1	71'	0,00897265		0,9999999	19'
12'	0,0000012		0,9999999	1,2	72'	0,00897265		0,9999999	18'
13'	0,0000013		0,9999999	1,3	73'	0,00897265		0,9999999	17'
14'	0,0000014		0,9999999	1,4	74'	0,00897265		0,9999999	16'
15'	0,0000015		0,9999999	1,5	75'	0,00897265		0,9999999	15'
16'	0,0000016		0,9999999	1,6	76'	0,00897265		0,9999999	14'
17'	0,0000017		0,9999999	1,7	77'	0,00897265		0,9999999	13'
18'	0,0000018		0,9999999	1,8	78'	0,00897265		0,9999999	12'
19'	0,0000019		0,9999999	1,9	79'	0,00897265		0,9999999	11'
20'	0,0000020		0,9999999	2,0	80'	0,00897265		0,9999999	10'
21'	0,0000021		0,9999999	2,1	81'	0,00897265		0,9999999	9'
22'	0,0000022		0,9999999	2,2	82'	0,00897265		0,9999999	8'
23'	0,0000023		0,9999999	2,3	83'	0,00897265		0,9999999	7'
24'	0,0000024		0,9999999	2,4	84'	0,00897265		0,9999999	6'
25'	0,0000025		0,9999999	2,5	85'	0,00897265		0,9999999	5'
26'	0,0000026		0,9999999	2,6	86'	0,00897265		0,9999999	4'
27'	0,0000027		0,9999999	2,7	87'	0,00897265		0,9999999	3'
28'	0,0000028		0,9999999	2,8	88'	0,00897265		0,9999999	2'
29'	0,0000029		0,9999999	2,9	89'	0,00897265		0,9999999	1'
30'	0,0000030		0,9999999	3,0	90'	0,00897265		0,9999999	0'
31'	0,0000031		0,9999999	3,1					
32'	0,0000032		0,9999999	3,2					
33'	0,0000033		0,9999999	3,3					
34'	0,0000034		0,9999999	3,4					
35'	0,0000035		0,9999999	3,5					
36'	0,0000036		0,9999999	3,6					
37'	0,0000037		0,9999999	3,7					
38'	0,0000038		0,9999999	3,8					
39'	0,0000039		0,9999999	3,9					
40'	0,0000040		0,9999999	4,0					
41'	0,0000041		0,9999999	4,1					
42'	0,0000042		0,9999999	4,2					
43'	0,0000043		0,9999999	4,3					
44'	0,0000044		0,9999999	4,4					
45'	0,0000045		0,9999999	4,5					
46'	0,0000046		0,9999999	4,6					
47'	0,0000047		0,9999999	4,7					
48'	0,0000048		0,9999999	4,8					
49'	0,0000049		0,9999999	4,9					
50'	0,0000050		0,9999999	5,0					
51'	0,0000051		0,9999999	5,1					
52'	0,0000052		0,9999999	5,2					
53'	0,0000053		0,9999999	5,3					
54'	0,0000054		0,9999999	5,4					
55'	0,0000055		0,9999999	5,5					
56'	0,0000056		0,9999999	5,6					
57'	0,0000057		0,9999999	5,7					
58'	0,0000058		0,9999999	5,8					
59'	0,0000059		0,9999999	5,9					
60'	0,0000060		0,9999999	6,0					
61'	0,0000061		0,9999999	6,1					
62'	0,0000062		0,9999999	6,2					
63'	0,0000063		0,9999999	6,3					
64'	0,0000064		0,9999999	6,4					
65'	0,0000065		0,9999999	6,5					
66'	0,0000066		0,9999999	6,6					
67'	0,0000067		0,9999999	6,7					
68'	0,0000068		0,9999999	6,8					
69'	0,0000069		0,9999999	6,9					
70'	0,0000070		0,9999999	7,0					
71'	0,0000071		0,9999999	7,1					
72'	0,0000072		0,9999999	7,2					
73'	0,0000073		0,9999999	7,3					
74'	0,0000074		0,9999999	7,4					
75'	0,0000075		0,9999999	7,5					
76'	0,0000076		0,9999999	7,6					
77'	0,0000077		0,9999999	7,7					
78'	0,0000078		0,9999999	7,8					
79'	0,0000079		0,9999999	7,9					
80'	0,0000080		0,9999999	8,0					
81'	0,0000081		0,9999999	8,1					
82'	0,0000082		0,9999999	8,2					
83'	0,0000083		0,9999999	8,3					
84'	0,0000084		0,9999999	8,4					
85'	0,0000085		0,9999999	8,5					
86'	0,0000086		0,9999999	8,6					
87'	0,0000087		0,9999999	8,7					
88'	0,0000088		0,9999999	8,8					
89'	0,0000089		0,9999999	8,9					
90'	0,0000090		0,9999999	9,0					
91'	0,0000091		0,9999999	9,1					
92'	0,0000092		0,9999999	9,2					
93'	0,0000093		0,9999999	9,3					
94'	0,0000094		0,9999999	9,4					
95'	0,0000095		0,9999999	9,5					
96'	0,0000096		0,9999999	9,6					
97'	0,0000097		0,9999999	9,7					
98'	0,0000098		0,9999999	9,8					
99'	0,0000099		0,9999999	9,9					
100'	0,0000100		0,9999999	10,0					

89 deg.

3 deg.

	sin.	diff. 10"	co-sin.	diff. 10"		sin.	diff. 10"	co-sin.	diff. 10"
0'	0,0503360	484,1	0,9995695	50,4	30'	0,0510485	483,9	0,9981348	50,6
3'	0,0504812		0,9995649	50,5	33'	0,0511937		0,9981259	50,7
6'	0,0506264		0,9995603	50,6	36'	0,0513389		0,9981170	50,8
9'	0,0507716		0,9995557	50,7	39'	0,0514841		0,9981081	50,9
12'	0,0509169		0,9995511	50,8	42'	0,0516293		0,9980992	51,0
15'	0,0510622		0,9995465	50,9	45'	0,0517745		0,9980903	51,1
18'	0,0512074		0,9995419	51,0	48'	0,0519197		0,9980814	51,2
21'	0,0513526		0,9995373	51,1	51'	0,0520649		0,9980725	51,3
24'	0,0514979		0,9995327	51,2	54'	0,0522101		0,9980636	51,4
27'	0,0516431		0,9995281	51,3	57'	0,0523553		0,9980547	51,5
30'	0,0517883		0,9995235	51,4	60'	0,0525005		0,9980458	51,6
33'	0,0519336		0,9995189	51,5	63'	0,0526457		0,9980369	51,7
36'	0,0520788		0,9995143	51,6	66'	0,0527909		0,9980280	51,8
39'	0,0522240		0,9995097	51,7	69'	0,0529361		0,9980191	51,9
42'	0,0523693		0,9995051	51,8	72'	0,0530813		0,9980102	52,0
45'	0,0525145		0,9995005	51,9	75'	0,0532265		0,9980013	52,1
48'	0,0526597		0,9994959	52,0	78'	0,0533717		0,9979924	52,2
51'	0,0528050		0,9994913	52,1	81'	0,0535169		0,9979835	52,3
54'	0,0529502		0,9994867	52,2	84'	0,0536621		0,9979746	52,4
57'	0,0530954		0,9994821	52,3	87'	0,0538073		0,9979657	52,5
60'	0,0532406		0,9994775	52,4	90'	0,0539525		0,9979568	52,6
63'	0,0533859		0,9994729	52,5	93'	0,0540977		0,9979479	52,7
66'	0,0535311		0,9994683	52,6	96'	0,0542429		0,9979390	52,8
69'	0,0536763		0,9994637	52,7	99'	0,0543881		0,9979301	52,9
72'	0,0538216		0,9994591	52,8					
75'	0,0539668		0,9994545	52,9					
78'	0,0541120		0,9994499	53,0					
81'	0,0542572		0,9994453	53,1					
84'	0,0544024		0,9994407	53,2					
87'	0,0545476		0,9994361	53,3					
90'	0,0546928		0,9994315	53,4					
93'	0,0548380		0,9994269	53,5					
96'	0,0549832		0,9994223	53,6					
99'	0,0551284		0,9994177	53,7					
102'	0,0552736		0,9994131	53,8					
105'	0,0554188		0,9994085	53,9					
108'	0,0555640		0,9994039	54,0					
111'	0,0557092		0,9993993	54,1					
114'	0,0558544		0,9993947	54,2					
117'	0,0559996		0,9993901	54,3					
120'	0,0561448		0,9993855	54,4					
123'	0,0562900		0,9993809	54,5					
126'	0,0564352		0,9993763	54,6					
129'	0,0565804		0,9993717	54,7					
132'	0,0567256		0,9993671	54,8					
135'	0,0568708		0,9993625	54,9					
138'	0,0570160		0,9993579	55,0					
141'	0,0571612		0,9993533	55,1					
144'	0,0573064		0,9993487	55,2					
147'	0,0574516		0,9993441	55,3					
150'	0,0575968		0,9993395	55,4					
153'	0,0577420		0,9993349	55,5					
156'	0,0578872		0,9993303	55,6					
159'	0,0580324		0,9993257	55,7					
162'	0,0581776		0,9993211	55,8					
165'	0,0583228		0,9993165	55,9					
168'	0,0584680		0,9993119	56,0					
171'	0,0586132		0,9993073	56,1					
174'	0,0587584		0,9993027	56,2					
177'	0,0589036		0,9992981	56,3					
180'	0,0590488		0,9992935	56,4					
183'	0,0591940		0,9992889	56,5					
186'	0,0593392		0,9992843	56,6					
189'	0,0594844		0,9992797	56,7					
192'	0,0596296		0,9992751	56,8					
195'	0,0597748		0,9992705	56,9					
198'	0,0599200		0,9992659	57,0					
201'	0,0600652		0,9992613	57,1					
204'	0,0602104		0,9992567	57,2					
207'	0,0603556		0,9992521	57,3					
210'	0,0605008		0,9992475	57,4					
213'	0,0606460		0,9992429	57,5					
216'	0,0607912		0,9992383	57,6					
219'	0,0609364		0,9992337	57,7					
222'	0,0610816		0,9992291	57,8					
225'	0,0612268		0,9992245	57,9					
228'	0,0613720		0,9992199	58,0					
231'	0,0615172		0,9992153	58,1					
234'	0,0616624		0,9992107	58,2					
237'	0,0618076		0,9992061	58,3					
240'	0,0619528		0,9992015	58,4					
243'	0,0620980		0,9991969	58,5					
246'	0,0622432		0,9991923	58,6					
249'	0,0623884		0,9991877	58,7					
252'	0,0625336		0,9991831	58,8					
255'	0,0626788		0,9991785	58,9					
258'	0,0628240		0,9991739	59,0					
261'	0,0629692		0,9991693	59,1					
264'	0,0631144		0,9991647	59,2					
267'	0,0632596		0,9991601	59,3					
270'	0,0634048		0,9991555	59,4					
273'	0,0635500		0,9991509	59,5					
276'	0,0636952		0,9991463	59,6					
279'	0,0638404		0,9991417	59,7					
282'	0,0639856		0,9991371	59,8					
285'	0,0641308		0,9991325	59,9					
288'	0,0642760		0,9991279	60,0					
291'	0,0644212		0,9991233	60,1					
294'	0,0645664		0,9991187	60,2					
297'	0,0647116		0,9991141	60,3					
300'	0,0648568		0,9991095	60,4					
303'	0,0650020		0,9991049	60,5					
306'	0,0651472		0,9991003	60,6					
309'	0,0652924		0,9990957	60,7					
312'	0,0654376		0,9990911	60,8					
315'	0,0655828		0,9990865	60,9					
318'	0,0657280		0,9990819	61,0					
321'	0,0658732		0,9990773	61,1					
324'	0,0660184		0,9990727	61,2					
327'	0,0661636		0,9990681	61,3					
330'	0,0663088		0,9990635	61,4					
333'	0,0664540		0,9990589	61,5					
336'	0,0665992		0,9990543	61,6					
339'	0,0667444		0,9990497	61,7					
342'	0,0668896		0,9990451	61,8					
345'	0,0670348		0,9990405	61,9					
348'	0,0671800		0,9990359	62,0					
351'	0,0673252		0,9990313	62,1					
354'	0,0674704		0,9990267	62,2					
357'	0,0676156		0,9990221	62,3					
360'	0,0677608		0,9990175	62,4					
363'	0,0679060		0,9990129	62,5					
366'	0,0680512		0,9990083	62,6					
369'	0,0681964		0,9990037	62,7					
372'	0,0683416		0,9989991	62,8					
375'	0,0684868		0,9989945	62,9					
378'	0,0686320		0,9989899	63,0					
381'	0,0687772		0,9989853	63,1					
384'	0,0689224		0,9989807	63,2					
387'	0,0690676		0,9989761	63,3					
390'	0,0692128		0,9989715	63,4					
393'	0,0693580		0,9989669	63,5					
396'	0,0695032		0,9989623	63,6					
399'	0,0696484		0,9989577	63,7					
402'	0,0697936		0,9989531	63,8					
405'	0,0699388		0,9989485	63,9					
408'	0,0700840		0,9989439	64,0					
411'	0,0702292		0,9989393	64,1					
414'	0,0703744		0,9989347	64,2					
417'	0,0705196		0,9989301	64,3					
420'	0,0706648		0,9989255	64,4					
423'	0,0708100		0,9989209	64,5					
426'	0,0709552		0,9989163	64,6					
429'	0,0711004		0,9989117	64,7					
432'	0,0712456		0,9989071	64,8					
435'	0,0713908		0,9989025	64,9					
438'	0,0715360		0,9988979	65,0					
441'	0,0716812		0,9988933	65,1					
444'	0,0718264		0,9988887	65,2					
447'	0,0719716		0,9988841	65,3					
450'	0,0721168		0,9988795	65,4					
453'	0,0722620		0,9988749	65,5					
456'	0,0724072		0,9988703	65,6					
459'	0,0725524		0,9988657	65,7					

4 deg.

	sin.	diff. 10"	co-sin.	diff. 10"			sin.	diff. 10"	co-sin.	diff. 10"			sin.	diff. 10"	co-sin.	diff. 10"	
0'	0,0676665		0,9975641	33,8	60'	0,0784591	483,3	0,9969173	38,0	30'			0,0784591	483,3	0,9969173	38,0	
3'	0,0676901	483,6	0,9975303	33,9	33'	0,0786041		0,9968600	38,1	33'			0,0786041		0,9968600	38,1	
1'	0,0677047		0,9974957	34,0	50'	0,0787491		0,9968029	38,2	27'			0,0787491		0,9968029	38,2	
3'	0,0677191		0,9974611	34,1	58'	0,0788941		0,9967458	38,3	25'			0,0788941		0,9967458	38,3	
2'	0,0677336		0,9974263	34,1	30'	0,0790391		0,9966887	38,4	36'			0,0790391		0,9966887	38,4	
3'	0,0677481		0,9973915	34,2	33'	0,0791841		0,9966316	38,5	27'			0,0791841		0,9966316	38,5	
3'	0,0677627		0,9973568	34,2	33'	0,0793290		0,9965745	38,6	36'			0,0793290		0,9965745	38,6	
4'	0,0677772		0,9973220	34,3	34'	0,0794740		0,9965174	38,7	25'			0,0794740		0,9965174	38,7	
3'	0,0677917		0,9972872	34,3	55'	0,0796190		0,9964603	38,8	25'			0,0796190		0,9964603	38,8	
3'	0,0678062		0,9972524	34,4	36'	0,0797640		0,9964032	38,9	36'			0,0797640		0,9964032	38,9	
5'	0,0678207		0,9972176	34,5	35'	0,0799090	483,2	0,9963461	39,0	25'			0,0799090	483,2	0,9963461	39,0	
3'	0,0678352		0,9971828	34,6	36'	0,0800540		0,9962890	39,1	36'			0,0800540		0,9962890	39,1	
6'	0,0678497		0,9971480	34,7	36'	0,0801990		0,9962319	39,2	24'			0,0801990		0,9962319	39,2	
3'	0,0678642		0,9971132	34,7	36'	0,0803440		0,9961748	39,3	24'			0,0803440		0,9961748	39,3	
7'	0,0678787	483,5	0,9970784	34,8	37'	0,0804890		0,9961177	39,4	23'			0,0804890		0,9961177	39,4	
3'	0,0678932		0,9970436	34,9	38'	0,0806340		0,9960606	39,5	36'			0,0806340		0,9960606	39,5	
8'	0,0679077		0,9970088	35,0	50'	0,0807790		0,9960035	39,6	22'			0,0807790		0,9960035	39,6	
3'	0,0679222		0,9969740	35,1	30'	0,0809240		0,9959464	39,7	36'			0,0809240		0,9959464	39,7	
9'	0,0679367		0,9969392	35,1	30'	0,0810690		0,9958893	39,8	21'			0,0810690		0,9958893	39,8	
3'	0,0679512		0,9969044	35,2	36'	0,0812140		0,9958322	39,9	36'			0,0812140		0,9958322	39,9	
10'	0,0679657		0,9968696	35,3	40'	0,0813590		0,9957751	40,0	20'			0,0813590		0,9957751	40,0	
3'	0,0679802		0,9968348	35,3	36'	0,0815040		0,9957180	40,1	36'			0,0815040		0,9957180	40,1	
11'	0,0679947		0,9967999	35,4	41'	0,0816490		0,9956609	40,2	19'			0,0816490		0,9956609	40,2	
3'	0,0680092		0,9967651	35,4	36'	0,0817940		0,9956038	40,3	36'			0,0817940		0,9956038	40,3	
12'	0,0680237		0,9967303	35,5	48'	0,0819390		0,9955467	40,4	18'			0,0819390		0,9955467	40,4	
3'	0,0680382		0,9966955	35,6	36'	0,0820840		0,9954896	40,5	36'			0,0820840		0,9954896	40,5	
13'	0,0680527		0,9966607	35,7	43'	0,0822290		0,9954325	40,6	17'			0,0822290		0,9954325	40,6	
3'	0,0680672		0,9966259	35,7	36'	0,0823740		0,9953754	40,7	36'			0,0823740		0,9953754	40,7	
14'	0,0680817		0,9965911	35,8	46'	0,0825190	483,1	0,9953183	40,8	16'			0,0825190	483,1	0,9953183	40,8	
3'	0,0680962		0,9965563	35,8	36'	0,0826640		0,9952612	40,9	36'			0,0826640		0,9952612	40,9	
15'	0,0681107		0,9965215	35,9	45'	0,0828090		0,9952041	41,0	15'			0,0828090		0,9952041	41,0	
3'	0,0681252		0,9964867	36,0	36'	0,0829540		0,9951470	41,1	36'			0,0829540		0,9951470	41,1	
16'	0,0681397		0,9964519	36,1	44'	0,0830990		0,9950899	41,2	14'			0,0830990		0,9950899	41,2	
3'	0,0681542		0,9964171	36,1	36'	0,0832440		0,9950328	41,3	36'			0,0832440		0,9950328	41,3	
17'	0,0681687	483,4	0,9963823	36,2	47'	0,0833890		0,9949757	41,4	13'			0,0833890		0,9949757	41,4	
3'	0,0681832		0,9963475	36,3	36'	0,0835340		0,9949186	41,5	36'			0,0835340		0,9949186	41,5	
18'	0,0681977		0,9963127	36,4	48'	0,0836790		0,9948615	41,6	12'			0,0836790		0,9948615	41,6	
3'	0,0682122		0,9962779	36,4	36'	0,0838240		0,9948044	41,7	36'			0,0838240		0,9948044	41,7	
19'	0,0682267		0,9962431	36,5	40'	0,0839690		0,9947473	41,8	11'			0,0839690		0,9947473	41,8	
3'	0,0682412		0,9962083	36,6	36'	0,0841140		0,9946902	41,9	36'			0,0841140		0,9946902	41,9	
20'	0,0682557		0,9961735	36,6	50'	0,0842590		0,9946331	42,0	10'			0,0842590		0,9946331	42,0	
3'	0,0682702		0,9961387	36,7	36'	0,0844040		0,9945760	42,1	36'			0,0844040		0,9945760	42,1	
21'	0,0682847		0,9961039	36,8	51'	0,0845490		0,9945189	42,2	9'			0,0845490		0,9945189	42,2	
3'	0,0682992		0,9960691	36,9	36'	0,0846940		0,9944618	42,3	36'			0,0846940		0,9944618	42,3	
22'	0,0683137		0,9960343	36,9	52'	0,0848390	483,0	0,9944047	42,4	8'			0,0848390	483,0	0,9944047	42,4	
3'	0,0683282		0,9959995	37,0	36'	0,0849840		0,9943476	42,5	36'			0,0849840		0,9943476	42,5	
23'	0,0683427		0,9959647	37,1	53'	0,0851290		0,9942905	42,6	7'			0,0851290		0,9942905	42,6	
3'	0,0683572		0,9959299	37,1	36'	0,0852740		0,9942334	42,7	36'			0,0852740		0,9942334	42,7	
24'	0,0683717		0,9958951	37,2	54'	0,0854190		0,9941763	42,8	6'			0,0854190		0,9941763	42,8	
3'	0,0683862		0,9958603	37,2	36'	0,0855640		0,9941192	42,9	36'			0,0855640		0,9941192	42,9	
25'	0,0684007		0,9958255	37,3	55'	0,0857090		0,9940621	43,0	5'			0,0857090		0,9940621	43,0	
3'	0,0684152		0,9957907	37,3	36'	0,0858540		0,9940050	43,1	36'			0,0858540		0,9940050	43,1	
26'	0,0684297	483,3	0,9957559	37,4	56'	0,0859990		0,9939479	43,2	4'			0,0859990		0,9939479	43,2	
3'	0,0684442		0,9957211	37,5	36'	0,0861440		0,9938908	43,3	36'			0,0861440		0,9938908	43,3	
27'	0,0684587		0,9956863	37,5	36'	0,0862890		0,9938337	43,4	36'			0,0862890		0,9938337	43,4	
3'	0,0684732		0,9956515	37,6	57'	0,0864340		0,9937766	43,5	36'			0,0864340		0,9937766	43,5	
28'	0,0684877		0,9956167	37,7	36'	0,0865790		0,9937195	43,6	36'			0,0865790		0,9937195	43,6	
3'	0,0685022		0,9955819	37,8	58'	0,0867240		0,9936624	43,7	36'			0,0867240		0,9936624	43,7	
29'	0,0685167		0,9955471	37,9	36'	0,0868690		0,9936053	43,8	36'			0,0868690		0,9936053	43,8	
3'	0,0685312		0,9955123	38,0	59'	0,0870140		0,9935482	43,9	36'			0,0870140		0,9935482	43,9	
30'	0,0685457		0,9954775	38,0	60'	0,0871590	483,0	0,9934911	44,0	36'			0,0871590	483,0	0,9934911	44,0	
	co-sin.	10"	sin.	10"		co-sin.	10"	sin.	10"		co-sin.	10"	sin.	10"		co-sin.	10"

85 deg.

5 deg.

	sin.	diff. 10"	co-sin.	diff. 10"			sin.	diff. 10"	co-sin.	diff. 10"			sin.	diff. 10"	co-sin.	diff. 10"
0'	0.0871557	483.10	0.99981947	42.3	60'	30'	0.0958458	482.6	0.9992969	46.6	30'		0.0958458	482.6	0.9992969	46.6
1'	0.0871560		0.99981820		31'	31'	0.0959000		0.9992882		29'		0.0959000		0.9992882	
2'	0.0871563	482.9	0.99981693	42.4	32'	32'	0.0959543		0.9992795		28'		0.0959543		0.9992795	
3'	0.0871566		0.99981566		33'	33'	0.0960086		0.9992708		27'		0.0960086		0.9992708	
4'	0.0871569		0.99981439	42.5	34'	34'	0.0960629	482.5	0.9992621	46.7	26'		0.0960629		0.9992621	
5'	0.0871572		0.99981311		35'	35'	0.0961172		0.9992534		25'		0.0961172		0.9992534	
6'	0.0871575		0.99981183	42.6	36'	36'	0.0961715		0.9992447		24'		0.0961715		0.9992447	
7'	0.0871578		0.99981054	42.7	37'	37'	0.0962258		0.9992360		23'		0.0962258		0.9992360	
8'	0.0871581		0.99980926	42.8	38'	38'	0.0962801		0.9992273		22'		0.0962801		0.9992273	
9'	0.0871584		0.99980798	42.9	39'	39'	0.0963344		0.9992186		21'		0.0963344		0.9992186	
10'	0.0871587		0.99980669	43.0	40'	40'	0.0963887		0.9992099		20'		0.0963887		0.9992099	
11'	0.0871590		0.99980541	43.1	41'	41'	0.0964430		0.9992012		19'		0.0964430		0.9992012	
12'	0.0871593		0.99980413	43.2	42'	42'	0.0964973		0.9991925		18'		0.0964973		0.9991925	
13'	0.0871596		0.99980285	43.3	43'	43'	0.0965516		0.9991838		17'		0.0965516		0.9991838	
14'	0.0871599		0.99980157	43.4	44'	44'	0.0966059		0.9991751		16'		0.0966059		0.9991751	
15'	0.0871602		0.99980029	43.5	45'	45'	0.0966602		0.9991664		15'		0.0966602		0.9991664	
16'	0.0871605	482.5	0.99979901	43.6	46'	46'	0.0967145	482.4	0.9991577	46.8	14'		0.0967145		0.9991577	
17'	0.0871608		0.99979773	43.7	47'	47'	0.0967688		0.9991490		13'		0.0967688		0.9991490	
18'	0.0871611		0.99979645	43.8	48'	48'	0.0968231		0.9991403		12'		0.0968231		0.9991403	
19'	0.0871614		0.99979517	43.9	49'	49'	0.0968774		0.9991316		11'		0.0968774		0.9991316	
20'	0.0871617		0.99979389	44.0	50'	50'	0.0969317		0.9991229		10'		0.0969317		0.9991229	
21'	0.0871620		0.99979261	44.1	51'	51'	0.0969860		0.9991142		9'		0.0969860		0.9991142	
22'	0.0871623		0.99979133	44.2	52'	52'	0.0970403		0.9991055		8'		0.0970403		0.9991055	
23'	0.0871626		0.99979005	44.3	53'	53'	0.0970946		0.9990968		7'		0.0970946		0.9990968	
24'	0.0871629		0.99978877	44.4	54'	54'	0.0971489		0.9990881		6'		0.0971489		0.9990881	
25'	0.0871632		0.99978749	44.5	55'	55'	0.0972032		0.9990794		5'		0.0972032		0.9990794	
26'	0.0871635	482.7	0.99978621	44.6	56'	56'	0.0972575	482.3	0.9990707	46.9	4'		0.0972575		0.9990707	
27'	0.0871638		0.99978493	44.7	57'	57'	0.0973118		0.9990620		3'		0.0973118		0.9990620	
28'	0.0871641		0.99978365	44.8	58'	58'	0.0973661		0.9990533		2'		0.0973661		0.9990533	
29'	0.0871644		0.99978237	44.9	59'	59'	0.0974204		0.9990446		1'		0.0974204		0.9990446	
30'	0.0871647		0.99978109	45.0			0.0974747		0.9990359				0.0974747		0.9990359	
31'	0.0871650		0.99977981	45.1			0.0975290		0.9990272				0.0975290		0.9990272	
32'	0.0871653		0.99977853	45.2			0.0975833		0.9990185				0.0975833		0.9990185	
33'	0.0871656		0.99977725	45.3			0.0976376		0.9990098				0.0976376		0.9990098	
34'	0.0871659		0.99977597	45.4			0.0976919		0.9989911				0.0976919		0.9989911	
35'	0.0871662		0.99977469	45.5			0.0977462		0.9989824				0.0977462		0.9989824	
36'	0.0871665		0.99977341	45.6			0.0978005		0.9989737				0.0978005		0.9989737	
37'	0.0871668		0.99977213	45.7			0.0978548		0.9989650				0.0978548		0.9989650	
38'	0.0871671		0.99977085	45.8			0.0979091		0.9989563				0.0979091		0.9989563	
39'	0.0871674		0.99976957	45.9			0.0979634		0.9989476				0.0979634		0.9989476	
40'	0.0871677		0.99976829	46.0			0.0980177		0.9989389				0.0980177		0.9989389	
41'	0.0871680		0.99976701	46.1			0.0980720		0.9989302				0.0980720		0.9989302	
42'	0.0871683		0.99976573	46.2			0.0981263		0.9989215				0.0981263		0.9989215	
43'	0.0871686		0.99976445	46.3			0.0981806		0.9989128				0.0981806		0.9989128	
44'	0.0871689		0.99976317	46.4			0.0982349		0.9989041				0.0982349		0.9989041	
45'	0.0871692		0.99976189	46.5			0.0982892		0.9988954				0.0982892		0.9988954	
46'	0.0871695		0.99976061	46.6			0.0983435		0.9988867				0.0983435		0.9988867	
47'	0.0871698		0.99975933	46.7			0.0983978		0.9988780				0.0983978		0.9988780	
48'	0.0871701		0.99975805	46.8			0.0984521		0.9988693				0.0984521		0.9988693	
49'	0.0871704		0.99975677	46.9			0.0985064		0.9988606				0.0985064		0.9988606	
50'	0.0871707		0.99975549	47.0			0.0985607		0.9988519				0.0985607		0.9988519	
51'	0.0871710		0.99975421	47.1			0.0986150		0.9988432				0.0986150		0.9988432	
52'	0.0871713		0.99975293	47.2			0.0986693		0.9988345				0.0986693		0.9988345	
53'	0.0871716		0.99975165	47.3			0.0987236		0.9988258				0.0987236		0.9988258	
54'	0.0871719		0.99975037	47.4			0.0987779		0.9988171				0.0987779		0.9988171	
55'	0.0871722		0.99974909	47.5			0.0988322		0.9988084				0.0988322		0.9988084	
56'	0.0871725		0.99974781	47.6			0.0988865		0.9987997				0.0988865		0.9987997	
57'	0.0871728		0.99974653	47.7			0.0989408		0.9987910				0.0989408		0.9987910	
58'	0.0871731		0.99974525	47.8			0.0989951		0.9987823				0.0989951		0.9987823	
59'	0.0871734		0.99974397	47.9			0.0990494		0.9987736				0.0990494		0.9987736	
60'	0.0871737		0.99974269	48.0			0.0991037		0.9987649				0.0991037		0.9987649	
61'	0.0871740		0.99974141	48.1			0.0991580		0.9987562				0.0991580		0.9987562	
62'	0.0871743		0.99974013	48.2			0.0992123		0.9987475				0.0992123		0.9987475	
63'	0.0871746		0.99973885	48.3			0.0992666		0.9987388				0.0992666		0.9987388	
64'	0.0871749		0.99973757	48.4			0.0993209		0.9987301				0.0993209		0.9987301	
65'	0.0871752		0.99973629	48.5			0.0993752		0.9987214				0.0993752		0.9987214	
66'	0.0871755		0.99973501	48.6			0.0994295		0.9987127				0.0994295		0.9987127	
67'	0.0871758		0.99973373	48.7			0.0994838		0.9987040				0.0994838		0.9987040	
68'	0.0871761		0.99973245	48.8			0.0995381		0.9986953				0.0995381		0.9986953	
69'	0.0871764		0.99973117	48.9			0.0995924		0.9986866				0.0995924		0.9986866	
70'	0.0871767		0.99972989	49.0			0.0996467		0.9986779				0.0996467		0.9986779	
71'	0.0871770		0.99972861	49.1			0.0997010		0.9986692				0.0997010		0.9986692	
72'	0.0871773		0.99972733	49.2			0.0997553		0.9986605				0.0997553		0.9986605	
73'	0.0871776		0.99972605	49.3			0.0998096		0.9986518				0.0998096		0.9986518	
74'	0.0871779		0.99972477	49.4			0.0998639		0.9986431				0.0998639		0.9986431	
75'	0.0871782		0.99972349	49.5			0.0999182		0.9986344				0.0999182		0.9986344	
76'	0.0871785		0.99972221	49.6			0.0999725		0.9986257				0.0999725		0.9986257	
77'	0.0871788		0.99972093	49.7			0.1000268		0.9986170				0.1000268		0.9986170	
78'	0.0871791		0.99971965	49.8			0.1000811		0.9986083				0.1000811		0.9986083	
79'	0.0871794		0.99971837	49.9			0.1001354		0.9985996				0.1001354		0.9985996	
80'	0.0871797		0.99971709	50.0			0.1001897		0.9985909				0.1001897		0.9985909	
81'	0.0871800		0.99971581	50.1			0.1002440		0.9985822				0.1002440		0.9985822	
82'	0.0871803		0.99971453	50.2			0.1002983		0.9985735				0.1002983		0.9985735	

6 deg.

[illegible]

7 deg.

	sin.	diff. 10"	co-sin.	diff. 10"		sin.	diff. 10"	co-sin.	diff. 10"		sin.	diff. 10"	co-sin.	diff. 10"
0	0,121863	481,3	0,99925452	59,2	60	0,1305262	480,7	0,99914449	63,3	30	0,1305262	480,7	0,99914449	63,3
1	0,1220137	481,3	0,99925284	59,2	31	0,1306704	480,6	0,99914281	63,4	31	0,1308146	480,5	0,99914113	63,4
2	0,1221681	481,3	0,99925117	59,3	32	0,1310098	480,5	0,99913943	63,5	32	0,1311540	480,4	0,99913775	63,5
3	0,1223225	481,3	0,99924950	59,3	33	0,1313492	480,4	0,99913497	63,6	33	0,1314936	480,3	0,99913329	63,6
4	0,1224769	481,3	0,99924783	59,3	34	0,1316886	480,3	0,99913051	63,7	34	0,1318330	480,2	0,99912883	63,7
5	0,1226313	481,3	0,99924615	59,4	35	0,1320280	480,2	0,99912604	63,8	35	0,1321724	480,1	0,99912436	63,8
6	0,1227857	481,3	0,99924448	59,4	36	0,1323674	480,1	0,99912248	63,9	36	0,1325118	480,0	0,99912080	63,9
7	0,1229401	481,3	0,99924280	59,4	37	0,1327068	480,0	0,99911891	64,0	37	0,1330512	479,9	0,99911723	64,0
8	0,1230945	481,3	0,99924113	59,5	38	0,1330962	480,0	0,99911533	64,1	38	0,1334406	479,8	0,99911365	64,1
9	0,1232489	481,3	0,99923945	59,5	39	0,1334356	480,0	0,99911275	64,2	39	0,1338300	479,7	0,99911107	64,2
10	0,1234033	481,3	0,99923778	59,6	40	0,1338300	480,0	0,99910977	64,3	40	0,1342244	479,6	0,99910809	64,3
11	0,1235577	481,3	0,99923610	59,6	41	0,1342244	480,0	0,99910689	64,4	41	0,1346188	479,5	0,99910521	64,4
12	0,1237121	481,3	0,99923443	59,7	42	0,1346188	480,0	0,99910415	64,5	42	0,1350132	479,4	0,99910247	64,5
13	0,1238665	481,3	0,99923275	59,7	43	0,1350132	480,0	0,99910149	64,6	43	0,1354076	479,3	0,99910000	64,6
14	0,1240209	481,3	0,99923108	59,8	44	0,1354076	480,0	0,99909880	64,7	44	0,1358020	479,2	0,99909712	64,7
15	0,1241753	481,3	0,99922940	59,8	45	0,1358020	480,0	0,99909542	64,8	45	0,1361964	479,1	0,99909374	64,8
16	0,1243297	481,3	0,99922773	59,9	46	0,1361964	480,0	0,99909275	64,9	46	0,1365908	479,0	0,99909107	64,9
17	0,1244841	481,3	0,99922605	59,9	47	0,1365908	480,0	0,99908987	65,0	47	0,1369852	478,9	0,99908819	65,0
18	0,1246385	481,3	0,99922438	60,0	48	0,1369852	480,0	0,99908711	65,1	48	0,1373796	478,8	0,99908543	65,1
19	0,1247929	481,3	0,99922270	60,0	49	0,1373796	480,0	0,99908435	65,2	49	0,1377740	478,7	0,99908267	65,2
20	0,1249473	481,3	0,99922103	60,1	50	0,1377740	480,0	0,99908157	65,3	50	0,1381684	478,6	0,99908000	65,3
21	0,1251017	481,3	0,99921935	60,1	51	0,1381684	480,0	0,99907880	65,4	51	0,1385628	478,5	0,99907712	65,4
22	0,1252561	481,3	0,99921768	60,2	52	0,1385628	480,0	0,99907592	65,5	52	0,1389572	478,4	0,99907424	65,5
23	0,1254105	481,3	0,99921600	60,2	53	0,1389572	480,0	0,99907314	65,6	53	0,1393516	478,3	0,99907156	65,6
24	0,1255649	481,3	0,99921433	60,3	54	0,1393516	480,0	0,99907036	65,7	54	0,1397460	478,2	0,99906900	65,7
25	0,1257193	481,3	0,99921265	60,3	55	0,1397460	480,0	0,99906712	65,8	55	0,1401404	478,1	0,99906644	65,8
26	0,1258737	481,3	0,99921098	60,4	56	0,1401404	480,0	0,99906436	65,9	56	0,1405348	478,0	0,99906376	65,9
27	0,1260281	481,3	0,99920930	60,4	57	0,1405348	480,0	0,99906158	66,0	57	0,1409292	477,9	0,99906116	66,0
28	0,1261825	481,3	0,99920763	60,5	58	0,1409292	480,0	0,99905879	66,1	58	0,1413236	477,8	0,99905900	66,1
29	0,1263369	481,3	0,99920595	60,5	59	0,1413236	480,0	0,99905631	66,2	59	0,1417180	477,7	0,99905640	66,2
30	0,1264913	481,3	0,99920428	60,6	60	0,1417180	480,0	0,99905392	66,3	60	0,1421124	477,6	0,99905400	66,3
31	0,1266457	481,3	0,99920260	60,6	61	0,1421124	480,0	0,99905154	66,4	61	0,1425068	477,5	0,99905212	66,4
32	0,1267999	481,3	0,99920093	60,7	62	0,1425068	480,0	0,99904916	66,5	62	0,1429012	477,4	0,99904970	66,5
33	0,1269543	481,3	0,99919925	60,7	63	0,1429012	480,0	0,99904678	66,6	63	0,1432956	477,3	0,99904724	66,6
34	0,1271087	481,3	0,99919758	60,8	64	0,1432956	480,0	0,99904436	66,7	64	0,1436900	477,2	0,99904480	66,7
35	0,1272631	481,3	0,99919590	60,8	65	0,1436900	480,0	0,99904198	66,8	65	0,1440844	477,1	0,99904224	66,8
36	0,1274175	481,3	0,99919423	60,9	66	0,1440844	480,0	0,99903960	66,9	66	0,1444788	477,0	0,99903960	66,9
37	0,1275719	481,3	0,99919255	60,9	67	0,1444788	480,0	0,99903722	67,0	67	0,1448732	476,9	0,99903712	67,0
38	0,1277263	481,3	0,99919088	61,0	68	0,1448732	480,0	0,99903484	67,1	68	0,1452676	476,8	0,99903480	67,1
39	0,1278807	481,3	0,99918920	61,0	69	0,1452676	480,0	0,99903246	67,2	69	0,1456620	476,7	0,99903236	67,2
40	0,1280351	481,3	0,99918753	61,1	70	0,1456620	480,0	0,99903008	67,3	70	0,1460564	476,6	0,99903000	67,3
41	0,1281895	481,3	0,99918585	61,1	71	0,1460564	480,0	0,99902770	67,4	71	0,1464508	476,5	0,99902760	67,4
42	0,1283439	481,3	0,99918418	61,2	72	0,1464508	480,0	0,99902532	67,5	72	0,1468452	476,4	0,99902524	67,5
43	0,1284983	481,3	0,99918250	61,2	73	0,1468452	480,0	0,99902294	67,6	73	0,1472396	476,3	0,99902296	67,6
44	0,1286527	481,3	0,99918083	61,3	74	0,1472396	480,0	0,99902056	67,7	74	0,1476340	476,2	0,99902056	67,7
45	0,1288071	481,3	0,99917915	61,3	75	0,1476340	480,0	0,99901818	67,8	75	0,1480284	476,1	0,99901816	67,8
46	0,1289615	481,3	0,99917748	61,4	76	0,1480284	480,0	0,99901580	67,9	76	0,1484228	476,0	0,99901576	67,9
47	0,1291159	481,3	0,99917580	61,4	77	0,1484228	480,0	0,99901342	68,0	77	0,1488172	475,9	0,99901336	68,0
48	0,1292703	481,3	0,99917413	61,5	78	0,1488172	480,0	0,99901104	68,1	78	0,1492116	475,8	0,99901100	68,1
49	0,1294247	481,3	0,99917245	61,5	79	0,1492116	480,0	0,99900866	68,2	79	0,1496060	475,7	0,99900860	68,2
50	0,1295791	481,3	0,99917078	61,6	80	0,1496060	480,0	0,99900628	68,3	80	0,1500004	475,6	0,99900624	68,3
51	0,1297335	481,3	0,99916910	61,6	81	0,1500004	480,0	0,99900390	68,4	81	0,1503948	475,5	0,99900384	68,4
52	0,1298879	481,3	0,99916743	61,7	82	0,1503948	480,0	0,99900152	68,5	82	0,1507892	475,4	0,99900148	68,5
53	0,1300423	481,3	0,99916575	61,7	83	0,1507892	480,0	0,99899914	68,6	83	0,1511836	475,3	0,99899910	68,6
54	0,1301967	481,3	0,99916408	61,8	84	0,1511836	480,0	0,99899676	68,7	84	0,1515780	475,2	0,99899672	68,7
55	0,1303511	481,3	0,99916240	61,8	85	0,1515780	480,0	0,99899438	68,8	85	0,1519724	475,1	0,99899434	68,8
56	0,1305055	481,3	0,99916073	61,9	86	0,1519724	480,0	0,99899200	68,9	86	0,1523668	475,0	0,99899196	68,9
57	0,1306599	481,3	0,99915905	61,9	87	0,1523668	480,0	0,99898962	69,0	87	0,1527612	474,9	0,99898958	69,0
58	0,1308143	481,3	0,99915738	62,0	88	0,1527612	480,0	0,99898724	69,1	88	0,1531556	474,8	0,99898720	69,1
59	0,1309687	481,3	0,99915570	62,0	89	0,1531556	480,0	0,99898486	69,2	89	0,1535500	474,7	0,99898482	69,2
60	0,1311231	481,3	0,99915403	62,1	90	0,1535500	480,0	0,99898248	69,3	90	0,1539444	474,6	0,99898244	69,3
61	0,1312775	481,3	0,99915235	62,1	91	0,1539444	480,0	0,99898010	69,4	91	0,1543388	474,5	0,99898006	69,4
62	0,1314319	481,3	0,99915068	62,2	92	0,1543388	480,0	0,99897772	69,5	92	0,1547332	474,4	0,99897768	69,5
63	0,1315863	481,3	0,99914900	62,2	93	0,1547332	480,0	0,99897534	69,6	93	0,1551276	474,3	0,99897530	69,6
64	0,1317407	481,3	0,99914733	62,3	94	0,1551276	480,0	0,99897296	69,7	94	0,1555220	474,2	0,99897292	69,7
65	0,1318951	481,3	0,99914565	62,3	95	0,1555220	480,0	0,99897058	69,8	95	0,1559164	474,1	0,99897054	69,8
66	0,1320495	481,3	0,99914398	62,4	96	0,1559164	480,0	0,99896820	69,9	96	0,1563108	474,0	0,99896816	69,9
67	0,1322039	481,3	0,99914230	62,4	97	0,1563108	480,0	0,99896582	70,0	97	0,1567052	473,9	0,99896578	70,0
68	0,1323583	481,3	0,99914063	62,5	98	0,1567052	480,0	0,99896344	70,1	98	0,1570996	473,8	0,99896340	70,1
69	0,1325127	481,3	0,99913895	62,5	99	0,1570996	480,0	0,99896106	70,2	99	0,1574940	473,7	0,99896102	70,2
70	0,1326671	481,3	0,99913728	62,6	100	0,1574940	480,0	0,99895868	70,3	100	0,1578884	473,6	0,99895864	70,3
71	0,1328215	481,3	0,99913560	62,6		</								

8 deg.

	sin.	diff. 10''	co-sin.	diff. 10''			sin.	diff. 10''	co-sin.	diff. 10''			sin.	diff. 10''	co-sin.	diff. 10''
0'	0,1391731	480,2	0,99902681	67,5	60'	30'	0,1478094	479,5	0,98901059	71,7	30'	30'	0,1564453	478,9	0,97901059	71,7
1'	0,1393172	480,2	0,99892475	67,6	31'	30'	0,1479533	479,5	0,98890843	71,8	31'	31'	0,1565892	478,9	0,97890843	71,8
2'	0,1394612	480,0	0,99882271	67,7	32'	31'	0,1480971	479,4	0,98880627	71,9	32'	32'	0,1567331	478,8	0,97880627	71,9
3'	0,1396052		0,99872067	67,8	33'	32'	0,1482410	479,3	0,98870411	72,0	33'	33'	0,1568770	478,8	0,97870411	72,0
4'	0,1397492		0,99861863	67,9	34'	33'	0,1483848	479,3	0,98860195	72,1	34'	34'	0,1570209	478,7	0,97860195	72,1
5'	0,1398932		0,99851659	68,0	35'	34'	0,1485286	479,2	0,98850001	72,2	35'	35'	0,1571648	478,7	0,97850001	72,2
6'	0,1400372		0,99841455	68,1	36'	35'	0,1486724	479,2	0,98839805	72,3	36'	36'	0,1573087	478,6	0,97839805	72,3
7'	0,1401812		0,99831251	68,2	37'	36'	0,1488163	479,1	0,98829609	72,4	37'	37'	0,1574526	478,6	0,97829609	72,4
8'	0,1403252		0,99821047	68,3	38'	37'	0,1489601	479,1	0,98819413	72,5	38'	38'	0,1575965	478,5	0,97819413	72,5
9'	0,1404692		0,99810843	68,4	39'	38'	0,1491039	479,0	0,98809217	72,6	39'	39'	0,1577404	478,5	0,97809217	72,6
10'	0,1406132		0,99800639	68,5	40'	39'	0,1492477	479,0	0,98799021	72,7	40'	40'	0,1578843	478,4	0,97799021	72,7
11'	0,1407572		0,99790435	68,6	41'	40'	0,1493915	478,9	0,98788825	72,8	41'	41'	0,1580282	478,4	0,97788825	72,8
12'	0,1409012		0,99780231	68,7	42'	41'	0,1495353	478,9	0,98778629	72,9	42'	42'	0,1581721	478,3	0,97778629	72,9
13'	0,1410452		0,99770027	68,8	43'	42'	0,1496792	478,8	0,98768433	73,0	43'	43'	0,1583160	478,3	0,97768433	73,0
14'	0,1411892		0,99759823	68,9	44'	43'	0,1498230	478,8	0,98758237	73,1	44'	44'	0,1584599	478,2	0,97758237	73,1
15'	0,1413332	479,9	0,99749619	69,0	45'	44'	0,1499668	478,7	0,98748041	73,2	45'	45'	0,1586038	478,2	0,97748041	73,2
16'	0,1414772	479,8	0,99739415	69,1	46'	45'	0,1501106	478,7	0,98737845	73,3	46'	46'	0,1587477	478,1	0,97737845	73,3
17'	0,1416212		0,99729211	69,2	47'	46'	0,1502545	478,6	0,98727649	73,4	47'	47'	0,1588916	478,1	0,97727649	73,4
18'	0,1417652	479,8	0,99719007	69,3	48'	47'	0,1503983	478,6	0,98717453	73,5	48'	48'	0,1590355	478,0	0,97717453	73,5
19'	0,1419092		0,99708803	69,4	49'	48'	0,1505422	478,5	0,98707257	73,6	49'	49'	0,1591794	478,0	0,97707257	73,6
20'	0,1420532		0,99698599	69,5	50'	49'	0,1506860	478,5	0,98697061	73,7	50'	50'	0,1593233	477,9	0,97697061	73,7
21'	0,1421972		0,99688395	69,6	51'	50'	0,1508299	478,4	0,98686865	73,8	51'	51'	0,1594672	477,9	0,97686865	73,8
22'	0,1423412	479,8	0,99678191	69,7	52'	51'	0,1509737	478,4	0,98676669	73,9	52'	52'	0,1596111	477,8	0,97676669	73,9
23'	0,1424852		0,99667987	69,8	53'	52'	0,1511176	478,3	0,98666473	74,0	53'	53'	0,1597550	477,8	0,97666473	74,0
24'	0,1426292		0,99657783	69,9	54'	53'	0,1512615	478,3	0,98656277	74,1	54'	54'	0,1598989	477,7	0,97656277	74,1
25'	0,1427732		0,99647579	70,0	55'	54'	0,1514054	478,2	0,98646081	74,2	55'	55'	0,1599428	477,7	0,97646081	74,2
26'	0,1429172		0,99637375	70,1	56'	55'	0,1515493	478,2	0,98635885	74,3	56'	56'	0,1600867	477,6	0,97635885	74,3
27'	0,1430612		0,99627171	70,2	57'	56'	0,1516932	478,1	0,98625689	74,4	57'	57'	0,1602306	477,6	0,97625689	74,4
28'	0,1432052		0,99616967	70,3	58'	57'	0,1518371	478,1	0,98615493	74,5	58'	58'	0,1603745	477,5	0,97615493	74,5
29'	0,1433492		0,99606763	70,4	59'	58'	0,1519810	478,0	0,98605297	74,6	59'	59'	0,1605184	477,5	0,97605297	74,6
30'	0,1434932		0,99596559	70,5	60'	59'	0,1521249	478,0	0,98595101	74,7	60'	60'	0,1606623	477,4	0,97595101	74,7
31'	0,1436372		0,99586355	70,6			0,1522688		0,98584905	74,8			0,1608062		0,97584905	74,8
32'	0,1437812		0,99576151	70,7			0,1524127		0,98574709	74,9			0,1609501		0,97574709	74,9
33'	0,1439252		0,99565947	70,8			0,1525566		0,98564513	75,0			0,1610940		0,97564513	75,0
34'	0,1440692		0,99555743	70,9			0,1526995		0,98554317	75,1			0,1612379		0,97554317	75,1
35'	0,1442132		0,99545539	71,0			0,1528434		0,98544121	75,2			0,1613818		0,97544121	75,2
36'	0,1443572		0,99535335	71,1			0,1529873		0,98533925	75,3			0,1615257		0,97533925	75,3
37'	0,1445012		0,99525131	71,2			0,1531312		0,98523729	75,4			0,1616696		0,97523729	75,4
38'	0,1446452		0,99514927	71,3			0,1532751		0,98513533	75,5			0,1618135		0,97513533	75,5
39'	0,1447892		0,99504723	71,4			0,1534190		0,98503337	75,6			0,1619574		0,97503337	75,6
40'	0,1449332		0,99494519	71,5			0,1535629		0,98493141	75,7			0,1621013		0,97493141	75,7
41'	0,1450772		0,99484315	71,6			0,1537068		0,98482945	75,8			0,1622452		0,97482945	75,8
42'	0,1452212		0,99474111	71,7			0,1538507		0,98472749	75,9			0,1623891		0,97472749	75,9
43'	0,1453652		0,99463907	71,8			0,1539946		0,98462553	76,0			0,1625330		0,97462553	76,0
44'	0,1455092		0,99453703	71,9			0,1541385		0,98452357	76,1			0,1626769		0,97452357	76,1
45'	0,1456532		0,99443499	72,0			0,1542824		0,98442161	76,2			0,1628208		0,97442161	76,2
46'	0,1457972		0,99433295	72,1			0,1544263		0,98431965	76,3			0,1629647		0,97431965	76,3
47'	0,1459412		0,99423091	72,2			0,1545702		0,98421769	76,4			0,1631086		0,97421769	76,4
48'	0,1460852		0,99412887	72,3			0,1547141		0,98411573	76,5			0,1632525		0,97411573	76,5
49'	0,1462292		0,99402683	72,4			0,1548580		0,98401377	76,6			0,1633964		0,97401377	76,6
50'	0,1463732		0,99392479	72,5			0,1550019		0,98391181	76,7			0,1635403		0,97391181	76,7
51'	0,1465172		0,99382275	72,6			0,1551458		0,98380985	76,8			0,1636842		0,97380985	76,8
52'	0,1466612		0,99372071	72,7			0,1552897		0,98370789	76,9			0,1638281		0,97370789	76,9
53'	0,1468052		0,99361867	72,8			0,1554336		0,98360593	77,0			0,1639720		0,97360593	77,0
54'	0,1469492		0,99351663	72,9			0,1555775		0,98350397	77,1			0,1641159		0,97350397	77,1
55'	0,1470932		0,99341459	73,0			0,1557214		0,98340201	77,2			0,1642598		0,97340201	77,2
56'	0,1472372		0,99331255	73,1			0,1558653		0,98330005	77,3			0,1644037		0,97330005	77,3
57'	0,1473812		0,99321051	73,2			0,1560092		0,98319809	77,4			0,1645476		0,97319809	77,4
58'	0,1475252		0,99310847	73,3			0,1561531		0,98309613	77,5			0,1646915		0,97309613	77,5
59'	0,1476692		0,99300643	73,4			0,1562970		0,98299417	77,6			0,1648354		0,97299417	77,6
60'	0,1478132		0,99290439	73,5			0,1564409		0,98289221	77,7			0,1649793		0,97289221	77,7
	co-sin.	10'' diff.	sin.	10'' diff.			co-sin.	10'' diff.	sin.	10'' diff.			co-sin.	10'' diff.	sin.	10'' diff.

81 deg.

9 deg.

	sin.	diff. 10"	co-sin.	diff. 10"		sin.	diff. 10"	co-sin.	diff. 10"
0°	0,1564345		0,98797883		60°	0,1559476		0,98802117	
3'	0,1567918	478,3	0,9877656	75,8	30'	0,1561916		0,9878084	
6'	0,1567418		0,9877448	75,9	33'	0,1563345		0,9876655	
9'	0,1568555		0,9877000	76,1	36'	0,1564780	478,1	0,9875220	478,1
12'	0,1570091		0,9876572	76,1	39'	0,1566214	478,0	0,9873786	478,0
15'	0,1571527	478,7	0,9876163	76,2	42'	0,1567648		0,9872351	
18'	0,1572963		0,9875761	76,3	45'	0,1569082	478,1	0,9870916	478,1
21'	0,1574399		0,9875358	76,4	48'	0,1570517	478,1	0,9869481	478,1
24'	0,1575835		0,9874957	76,5	51'	0,1571951	478,0	0,9868046	478,0
27'	0,1577271	478,7	0,9874528	76,6	54'	0,1573385	478,0	0,9866611	478,0
30'	0,1578708		0,9874109	76,7	57'	0,1574819		0,9865176	
33'	0,1580145		0,9873691	76,8	60'	0,1576253		0,9863741	
36'	0,1581581		0,9873274	76,8	31°	0,1577687		0,9862306	
39'	0,1583017	478,7	0,9872858	76,9	33'	0,1579121		0,9860871	
42'	0,1584453		0,9872443	76,9	36'	0,1580555		0,9859436	
45'	0,1585889		0,9872028	76,9	39'	0,1581989		0,9857999	
48'	0,1587325		0,9871615	76,9	42'	0,1583423		0,9856564	
51'	0,1588761		0,9871202	77,0	45'	0,1584857		0,9855129	
54'	0,1590197		0,9870790	77,0	48'	0,1586291	477,9	0,9853694	477,9
57'	0,1591633		0,9870378	77,1	51'	0,1587725	477,9	0,9852259	477,9
60'	0,1593069	478,6	0,9869967	77,1	54'	0,1589159	477,8	0,9850824	477,8
63'	0,1594505		0,9869557	77,2	57'	0,1590593	477,8	0,9849389	477,8
66'	0,1595941		0,9869147	77,3	60'	0,1592027	477,8	0,9847954	477,8
69'	0,1597377	478,6	0,9868738	77,4	31°	0,1593461		0,9846519	
72'	0,1598813		0,9868329	77,4	33'	0,1594895		0,9845084	
75'	0,1599249		0,9867920	77,5	36'	0,1596329		0,9843649	
78'	0,1600685		0,9867511	77,5	39'	0,1597763	477,8	0,9842214	477,8
81'	0,1602121		0,9867102	77,6	42'	0,1599197	477,8	0,9840779	477,8
84'	0,1603557		0,9866693	77,6	45'	0,1600631		0,9839344	
87'	0,1604993	478,6	0,9866284	77,7	48'	0,1602065		0,9837909	
90'	0,1606429		0,9865875	77,7	51'	0,1603499	477,8	0,9836474	477,8
93'	0,1607865		0,9865466	77,8	54'	0,1604933	477,8	0,9835039	477,8
96'	0,1609301		0,9865057	77,8	57'	0,1606367	477,7	0,9833604	477,7
99'	0,1610737	478,3	0,9864648	77,9	60'	0,1607801	477,7	0,9832169	477,7
102'	0,1612173		0,9864239	78,0	31°	0,1609235		0,9830734	
105'	0,1613609		0,9863830	78,1	33'	0,1610669		0,9829299	
108'	0,1615045		0,9863421	78,1	36'	0,1612103		0,9827864	
111'	0,1616481	478,3	0,9863012	78,2	39'	0,1613537	477,7	0,9826429	477,7
114'	0,1617917		0,9862603	78,2	42'	0,1614971		0,9824994	
117'	0,1619353		0,9862194	78,3	45'	0,1616405		0,9823559	
120'	0,1620789	478,6	0,9861785	78,4	48'	0,1617839	477,7	0,9822124	477,7
123'	0,1622225		0,9861376	78,4	51'	0,1619273	477,7	0,9820689	477,7
126'	0,1623661		0,9860967	78,5	54'	0,1620707	477,6	0,9819254	477,6
129'	0,1625097		0,9860558	78,5	57'	0,1622141	477,6	0,9817819	477,6
132'	0,1626533	478,3	0,9860149	78,6	60'	0,1623575	477,6	0,9816384	477,6
135'	0,1627969		0,9859740	78,6	31°	0,1625009		0,9814949	
138'	0,1629405		0,9859331	78,7	33'	0,1626443		0,9813514	
141'	0,1630841		0,9858922	78,7	36'	0,1627877	477,5	0,9812079	477,5
144'	0,1632277		0,9858513	78,8	39'	0,1629311	477,5	0,9810644	477,5
147'	0,1633713	478,3	0,9858104	78,8	42'	0,1630745	477,5	0,9809209	477,5
150'	0,1635149		0,9857695	78,9	45'	0,1632179		0,9807774	
153'	0,1636585		0,9857286	78,9	48'	0,1633613		0,9806339	
156'	0,1638021		0,9856877	79,0	51'	0,1635047	477,4	0,9804904	477,4
159'	0,1639457		0,9856468	79,0	54'	0,1636481	477,4	0,9803469	477,4
162'	0,1640893	478,3	0,9856059	79,1	57'	0,1637915	477,4	0,9802034	477,4
165'	0,1642329		0,9855650	79,1	60'	0,1639349	477,3	0,9800599	477,3
168'	0,1643765		0,9855241	79,2	31°	0,1640783		0,9799164	
171'	0,1645201		0,9854832	79,2	33'	0,1642217		0,9797729	
174'	0,1646637	478,6	0,9854423	79,3	36'	0,1643651		0,9796294	
177'	0,1648073		0,9854014	79,3	39'	0,1645085	477,3	0,9794859	477,3
180'	0,1649509		0,9853605	79,4	42'	0,1646519	477,3	0,9793424	477,3
183'	0,1650945		0,9853196	79,4	45'	0,1647953		0,9791989	
186'	0,1652381		0,9852787	79,5	48'	0,1649387		0,9790554	
189'	0,1653817	478,3	0,9852378	79,5	51'	0,1650821	477,2	0,9789119	477,2
192'	0,1655253		0,9851969	79,6	54'	0,1652255	477,2	0,9787684	477,2
195'	0,1656689		0,9851560	79,6	57'	0,1653689	477,1	0,9786249	477,1
198'	0,1658125		0,9851151	79,7	60'	0,1655123	477,1	0,9784814	477,1
201'	0,1659561	478,6	0,9850742	79,7	31°	0,1656557		0,9783379	
204'	0,1660997		0,9850333	79,8	33'	0,1657991		0,9781944	
207'	0,1662433		0,9849924	79,8	36'	0,1659425		0,9780509	
210'	0,1663869		0,9849515	79,9	39'	0,1660859	477,0	0,9779074	477,0
213'	0,1665305		0,9849106	79,9	42'	0,1662293	477,0	0,9777639	477,0
216'	0,1666741	478,3	0,9848697	80,0	45'	0,1663727		0,9776204	
219'	0,1668177		0,9848288	80,0	48'	0,1665161		0,9774769	
222'	0,1669613		0,9847879	80,1	51'	0,1666595		0,9773334	
225'	0,1671049		0,9847470	80,1	54'	0,1668029	476,9	0,9771899	476,9
228'	0,1672485		0,9847061	80,1	57'	0,1669463	476,9	0,9770464	476,9
231'	0,1673921	478,6	0,9846652	80,2	60'	0,1670897	476,9	0,9769029	476,9
234'	0,1675357		0,9846243	80,2	31°	0,1672331		0,9767594	
237'	0,1676793		0,9845834	80,3	33'	0,1673765		0,9766159	
240'	0,1678229		0,9845425	80,3	36'	0,1675199		0,9764724	
243'	0,1679665	478,3	0,9845016	80,4	39'	0,1676633	476,8	0,9763289	476,8
246'	0,1681101		0,9844607	80,4	42'	0,1678067	476,8	0,9761854	476,8
249'	0,1682537		0,9844198	80,5	45'	0,1679501		0,9760419	
252'	0,1683973		0,9843789	80,5	48'	0,1680935		0,9758984	
255'	0,1685409		0,9843380	80,6	51'	0,1682369	476,7	0,9757549	476,7
258'	0,1686845		0,9842971	80,6	54'	0,1683803	476,7	0,9756114	476,7
261'	0,1688281	478,6	0,9842562	80,7	57'	0,1685237	476,6	0,9754679	476,6
264'	0,1689717		0,9842153	80,7	60'	0,1686671	476,6	0,9753244	476,6
267'	0,1691153		0,9841744	80,8	31°	0,1688105		0,9751809	
270'	0,1692589		0,9841335	80,8	33'	0,1689539		0,9750374	
273'	0,1694025	478,3	0,9840926	80,9	36'	0,1690973		0,9748939	
276'	0,1695461		0,9840517	80,9	39'	0,1692407	476,5	0,9747504	476,5
279'	0,1696897		0,9840108	81,0	42'	0,1693841	476,5	0,9746069	476,5
282'	0,1698333		0,9839699	81,0	45'	0,1695275		0,9744634	
285'	0,1699769		0,9839290	81,1	48'	0,1696709		0,9743199	
288'	0,1701205	478,6	0,9838881	81,1	51'	0,1698143	476,4	0,9741764	476,4
291'	0,1702641		0,9838472	81,2	54'	0,1699577	476,4	0,9740329	476,4
294'	0,1704077		0,9838063	81,2	57'	0,1701011	476,3	0,9738894	476,3
297'	0,1705513		0,9837654	81,3	60'	0,1702445	476,3	0,9737459	476,3
300'	0,1706949	478,3	0,9837245	81,3	31°	0,1703879		0,9736024	
303'	0,1708385		0,9836836	81,4	33'	0,1705313		0,9734589	
306'	0,1709821		0,9836427	81,4	36'	0,1706747		0,9733154	
309'	0,1711257		0,9836018	81,5	39'	0,1708181	476,2	0,9731719	476,2
312'	0,1712693		0,9835609	81,5	42'	0,1709615	476,2	0,9730284	476,2
315'	0,1714129	478,6	0,9835199	81,6	45'	0,1711049		0,9728849	
318'	0,1715565		0,9834790	81,6	48'	0,1712483		0,9727414	
321'	0,1717001		0,9834381	81,7	51'	0,1713917	476,1	0,9725979	476,1
324'	0,1718437		0,9833972	81,7	54'	0,1715351	476,1	0,9724544	476,1
327'	0,1719873		0,9833563	81,8	57'	0,1716785	476,0	0,9723109	476,0
330'	0,1721309	478,3	0,9833154	81,8	60'	0,1718219	476,0	0,9721674	476,0
333'	0,1722745		0,9832745	81,9	31°	0,1719653		0,9720239	
336'	0,1724181		0,9832336	81,9	33'	0,1721087		0,9718804	
339'	0,1725617		0,9831927	82,0	36'	0,1722521		0,9717369	
342'	0,1727053		0,9831518	82,0	39'	0,1723955	475,9	0,9715934	475,9
345'	0,1728489		0,9831109	82,1	42'	0,1725389	475,9	0,9714499	475,9
348'	0,1729925		0,9830700	82,1	45'	0,1726823		0,9713064	
351'	0,1731361	478,6	0,9830291	82,2	48'	0,1728257		0,9711629	
354'	0,1732797		0,9829882	82,2	51'	0,1729691		0,9710194	
357'	0,1								

10 deg.

	sin.	diff. 10''	co-sin.	diff. 10''		sin.	diff. 10''	co-sin.	diff. 10''
0	0,173688		0,9848078	84,3	30	0,1822555	476,7	0,9832549	30,1
1	0,173714	477,3	0,9847826	84,3	31	0,1823785	476,7	0,9832284	29,9
2	0,173740	477,3	0,9847574	84,4	32	0,1825015	476,7	0,9832019	29,7
3	0,173767	477,3	0,9847321	84,4	33	0,1826245	476,7	0,9831753	29,5
4	0,173793	477,3	0,9847068	84,5	34	0,1827475	476,7	0,9831487	29,3
5	0,173820	477,3	0,9846815	84,6	35	0,1828705	476,7	0,9831221	29,1
6	0,173846	477,3	0,9846562	84,7	36	0,1830035	476,7	0,9830955	28,9
7	0,173873	477,3	0,9846309	84,8	37	0,1831265	476,7	0,9830689	28,7
8	0,173899	477,3	0,9846056	84,9	38	0,1832495	476,7	0,9830422	28,5
9	0,173926	477,3	0,9845803	85,0	39	0,1833725	476,7	0,9830156	28,3
10	0,173952	477,3	0,9845550	85,1	40	0,1834955	476,7	0,9829889	28,1
11	0,173978	477,3	0,9845297	85,2	41	0,1836185	476,7	0,9829623	27,9
12	0,174005	477,3	0,9845044	85,3	42	0,1837415	476,7	0,9829356	27,7
13	0,174031	477,3	0,9844791	85,4	43	0,1838645	476,7	0,9829089	27,5
14	0,174057	477,3	0,9844538	85,5	44	0,1839875	476,7	0,9828823	27,3
15	0,174084	477,3	0,9844285	85,6	45	0,1841105	476,7	0,9828556	27,1
16	0,174110	477,3	0,9844032	85,7	46	0,1842335	476,7	0,9828289	26,9
17	0,174136	477,3	0,9843779	85,8	47	0,1843565	476,7	0,9828023	26,7
18	0,174163	477,3	0,9843526	85,9	48	0,1844795	476,7	0,9827756	26,5
19	0,174189	477,3	0,9843273	86,0	49	0,1846025	476,7	0,9827489	26,3
20	0,174215	477,3	0,9843020	86,1	50	0,1847255	476,7	0,9827223	26,1
21	0,174242	477,3	0,9842767	86,2	51	0,1848485	476,7	0,9826956	25,9
22	0,174268	477,3	0,9842514	86,3	52	0,1849715	476,7	0,9826689	25,7
23	0,174294	477,3	0,9842261	86,4	53	0,1850945	476,7	0,9826423	25,5
24	0,174321	477,3	0,9842008	86,5	54	0,1852175	476,7	0,9826156	25,3
25	0,174347	477,3	0,9841755	86,6	55	0,1853405	476,7	0,9825889	25,1
26	0,174373	477,3	0,9841502	86,7	56	0,1854635	476,7	0,9825623	24,9
27	0,174400	477,3	0,9841249	86,8	57	0,1855865	476,7	0,9825356	24,7
28	0,174426	477,3	0,9840996	86,9	58	0,1857095	476,7	0,9825089	24,5
29	0,174452	477,3	0,9840743	87,0	59	0,1858325	476,7	0,9824823	24,3
30	0,174478	477,3	0,9840490	87,1	60	0,1859555	476,7	0,9824556	24,1
31	0,174505	477,3	0,9840237	87,2	61	0,1860785	476,7	0,9824289	23,9
32	0,174531	477,3	0,9839984	87,3	62	0,1862015	476,7	0,9824023	23,7
33	0,174557	477,3	0,9839731	87,4	63	0,1863245	476,7	0,9823756	23,5
34	0,174584	477,3	0,9839478	87,5	64	0,1864475	476,7	0,9823489	23,3
35	0,174610	477,3	0,9839225	87,6	65	0,1865705	476,7	0,9823223	23,1
36	0,174636	477,3	0,9838972	87,7	66	0,1866935	476,7	0,9822956	22,9
37	0,174663	477,3	0,9838719	87,8	67	0,1868165	476,7	0,9822689	22,7
38	0,174689	477,3	0,9838466	87,9	68	0,1869395	476,7	0,9822423	22,5
39	0,174715	477,3	0,9838213	88,0	69	0,1870625	476,7	0,9822156	22,3
40	0,174742	477,3	0,9837960	88,1	70	0,1871855	476,7	0,9821889	22,1
41	0,174768	477,3	0,9837707	88,2	71	0,1873085	476,7	0,9821623	21,9
42	0,174794	477,3	0,9837454	88,3	72	0,1874315	476,7	0,9821356	21,7
43	0,174821	477,3	0,9837201	88,4	73	0,1875545	476,7	0,9821089	21,5
44	0,174847	477,3	0,9836948	88,5	74	0,1876775	476,7	0,9820823	21,3
45	0,174873	477,3	0,9836695	88,6	75	0,1878005	476,7	0,9820556	21,1
46	0,174900	477,3	0,9836442	88,7	76	0,1879235	476,7	0,9820289	20,9
47	0,174926	477,3	0,9836189	88,8	77	0,1880465	476,7	0,9820023	20,7
48	0,174952	477,3	0,9835936	88,9	78	0,1881695	476,7	0,9819756	20,5
49	0,174978	477,3	0,9835683	89,0	79	0,1882925	476,7	0,9819489	20,3
50	0,175005	477,3	0,9835430	89,1	80	0,1884155	476,7	0,9819223	20,1
51	0,175031	477,3	0,9835177	89,2	81	0,1885385	476,7	0,9818956	19,9
52	0,175057	477,3	0,9834924	89,3	82	0,1886615	476,7	0,9818689	19,7
53	0,175084	477,3	0,9834671	89,4	83	0,1887845	476,7	0,9818423	19,5
54	0,175110	477,3	0,9834418	89,5	84	0,1889075	476,7	0,9818156	19,3
55	0,175136	477,3	0,9834165	89,6	85	0,1890305	476,7	0,9817889	19,1
56	0,175163	477,3	0,9833912	89,7	86	0,1891535	476,7	0,9817623	18,9
57	0,175189	477,3	0,9833659	89,8	87	0,1892765	476,7	0,9817356	18,7
58	0,175215	477,3	0,9833406	89,9	88	0,1893995	476,7	0,9817089	18,5
59	0,175242	477,3	0,9833153	90,0	89	0,1895225	476,7	0,9816823	18,3
60	0,175268	477,3	0,9832900	90,1	90	0,1896455	476,7	0,9816556	18,1
61	0,175294	477,3	0,9832647	90,2	91	0,1897685	476,7	0,9816289	17,9
62	0,175321	477,3	0,9832394	90,3	92	0,1898915	476,7	0,9816023	17,7
63	0,175347	477,3	0,9832141	90,4	93	0,1899145	476,7	0,9815756	17,5
64	0,175373	477,3	0,9831888	90,5	94	0,1900375	476,7	0,9815489	17,3
65	0,175400	477,3	0,9831635	90,6	95	0,1901605	476,7	0,9815223	17,1
66	0,175426	477,3	0,9831382	90,7	96	0,1902835	476,7	0,9814956	16,9
67	0,175452	477,3	0,9831129	90,8	97	0,1904065	476,7	0,9814689	16,7
68	0,175478	477,3	0,9830876	90,9	98	0,1905295	476,7	0,9814423	16,5
69	0,175505	477,3	0,9830623	91,0	99	0,1906525	476,7	0,9814156	16,3
70	0,175531	477,3	0,9830370	91,1	100	0,1907755	476,7	0,9813889	16,1
71	0,175557	477,3	0,9830117	91,2					
72	0,175584	477,3	0,9829864	91,3					
73	0,175610	477,3	0,9829611	91,4					
74	0,175636	477,3	0,9829358	91,5					
75	0,175663	477,3	0,9829105	91,6					
76	0,175689	477,3	0,9828852	91,7					
77	0,175715	477,3	0,9828599	91,8					
78	0,175742	477,3	0,9828346	91,9					
79	0,175768	477,3	0,9828093	92,0					
80	0,175794	477,3	0,9827840	92,1					
81	0,175821	477,3	0,9827587	92,2					
82	0,175847	477,3	0,9827334	92,3					
83	0,175873	477,3	0,9827081	92,4					
84	0,175900	477,3	0,9826828	92,5					
85	0,175926	477,3	0,9826575	92,6					
86	0,175952	477,3	0,9826322	92,7					
87	0,175978	477,3	0,9826069	92,8					
88	0,176005	477,3	0,9825816	92,9					
89	0,176031	477,3	0,9825563	93,0					
90	0,176057	477,3	0,9825310	93,1					
91	0,176084	477,3	0,9825057	93,2					
92	0,176110	477,3	0,9824804	93,3					
93	0,176136	477,3	0,9824551	93,4					
94	0,176163	477,3	0,9824298	93,5					
95	0,176189	477,3	0,9824045	93,6					
96	0,176215	477,3	0,9823792	93,7					
97	0,176242	477,3	0,9823539	93,8					
98	0,176268	477,3	0,9823286	93,9					
99	0,176294	477,3	0,9823033	94,0					
100	0,176321	477,3	0,9822780	94,1					

79 deg.

11 deg.

	sin.	diff. 10"	co-sin.	diff. 10"		sin.	diff. 10"	co-sin.	diff. 10"		sin.	diff. 10"	co-sin.	diff. 10"
0	0,1908090		0,9816272		60	0,1993679		0,9797247		30	0,1908090		0,9816272	
1	0,1909157	475,8	0,9815994	90,5	30	0,1995105	475,2	0,9797597	90,7	30	0,1908090		0,9816272	
2	0,1910345		0,9815716	90,6	31	0,1996530	475,1	0,9797947	90,8	31	0,1909157	475,8	0,9815994	90,5
3	0,1911533		0,9815438	90,7	32	0,1997955	475,0	0,9798297	90,9	32	0,1910345		0,9815716	90,6
4	0,1912721		0,9815160	90,8	33	0,1999380		0,9798647	91,0	33	0,1911533		0,9815438	90,7
5	0,1913908		0,9814882	90,9	34	0,2000805		0,9798997	91,1	34	0,1912721		0,9815160	90,8
6	0,1915096		0,9814604	91,0	35	0,2002230		0,9799347	91,2	35	0,1913908		0,9814882	90,9
7	0,1916284		0,9814326	91,1	36	0,2003655		0,9799697	91,3	36	0,1915096		0,9814604	91,0
8	0,1917472		0,9814048	91,2	37	0,2005080		0,9799947	91,4	37	0,1916284		0,9814326	91,1
9	0,1918660		0,9813770	91,3	38	0,2006505		0,9800297	91,5	38	0,1917472		0,9814048	91,2
10	0,1919848		0,9813492	91,4	39	0,2007930	474,9	0,9800647	91,6	39	0,1918660		0,9813770	91,3
11	0,1921036		0,9813214	91,5	40	0,2009355	474,8	0,9800997	91,7	40	0,1919848		0,9813492	91,4
12	0,1922224		0,9812936	91,6	41	0,2010780	474,7	0,9801347	91,8	41	0,1921036		0,9813214	91,5
13	0,1923412		0,9812658	91,7	42	0,2012205	474,6	0,9801697	91,9	42	0,1922224		0,9812936	91,6
14	0,1924600		0,9812380	91,8	43	0,2013630	474,5	0,9802047	92,0	43	0,1923412		0,9812658	91,7
15	0,1925788		0,9812102	91,9	44	0,2015055		0,9802397	92,1	44	0,1924600		0,9812380	91,8
16	0,1926976		0,9811824	92,0	45	0,2016480		0,9802747	92,2	45	0,1925788		0,9812102	91,9
17	0,1928164		0,9811546	92,1	46	0,2017905		0,9803097	92,3	46	0,1926976		0,9811824	92,0
18	0,1929352		0,9811268	92,2	47	0,2019330		0,9803447	92,4	47	0,1928164		0,9811546	92,1
19	0,1930540		0,9810990	92,3	48	0,2020755		0,9803797	92,5	48	0,1929352		0,9811268	92,2
20	0,1931728		0,9810712	92,4	49	0,2022180	474,7	0,9804147	92,6	49	0,1930540		0,9810990	92,3
21	0,1932916		0,9810434	92,5	50	0,2023605	474,6	0,9804497	92,7	50	0,1931728		0,9810712	92,4
22	0,1934104		0,9810156	92,6	51	0,2025030	474,5	0,9804847	92,8	51	0,1932916		0,9810434	92,5
23	0,1935292		0,9809878	92,7	52	0,2026455	474,4	0,9805197	92,9	52	0,1934104		0,9809878	92,6
24	0,1936480		0,9809600	92,8	53	0,2027880	474,3	0,9805547	93,0	53	0,1935292		0,9809600	92,7
25	0,1937668		0,9809322	92,9	54	0,2029305		0,9805897	93,1	54	0,1936480		0,9809322	92,8
26	0,1938856													

	sin.	diff. 10'	co-sin.	diff. 10'		sin.	diff. 10'	co-sin.	diff. 10'
0'	0,2079117	473,2	0,97781476	100,8	60'	0,2164396	473,3	0,9762960	105,0
30'	0,2080598		0,97781174	100,9	30'	0,2165816		0,9762945	105,0
1'	0,2081962		0,97780871	101,0	31'	0,2167236		0,9762930	105,1
3'	0,2083384		0,97780568	101,1	32'	0,2168656		0,9762914	105,1
2'	0,2084807		0,97780265	101,2	33'	0,2170076	473,2	0,9762899	105,3
3'	0,2086229		0,97779961		34'	0,2171495		0,9762883	105,3
3'	0,2087652		0,97779658	101,3	35'	0,2172915		0,9762867	105,3
3'	0,2089080	474,1	0,97779354	101,4	36'	0,2174335		0,9762851	105,4
4'	0,2090507	474,0	0,97779050	101,5	37'	0,2175754		0,9762835	105,5
3'	0,2091919	474,1	0,97778745		38'	0,2177173		0,9762819	105,5
5'	0,2093341		0,97778441	55'	39'	0,2178593		0,9762802	105,7
6'	0,2094764	474,2	0,97778137	101,6	40'	0,2180013		0,9762785	105,7
6'	0,2096186	474,1	0,97777832	101,7	41'	0,2181432		0,9762768	105,8
3'	0,2097608	474,0	0,97777527		42'	0,2182851		0,9762751	105,9
7'	0,2099030		0,97777222	101,8	43'	0,2184271		0,9762734	105,9
2'	0,2100452		0,97776917	101,9	44'	0,2185691	473,1	0,9762717	106,1
8'	0,2101874		0,97776611	102,0	45'	0,2187110	473,0	0,9762700	106,2
9'	0,2103296	473,9	0,97776305	102,1	46'	0,2188529		0,9762683	106,2
9'	0,2104718	473,8	0,97776000	102,2	47'	0,2189948		0,9762666	106,3
9'	0,2106139	473,9	0,97775695		48'	0,2191367		0,9762649	106,3
10'	0,2107561	474,0	0,97775386	50'	49'	0,2192786		0,9762632	106,3
10'	0,2108983	473,9	0,97775080		50'	0,2194205		0,9762615	106,4
11'	0,2110405	473,8	0,97774773	102,3	51'	0,2195624		0,9762598	106,4
12'	0,2111826		0,97774465	102,4	52'	0,2197043		0,9762581	106,5
12'	0,2113248		0,97774157	102,5	53'	0,2198462		0,9762564	106,7
13'	0,2114670		0,97773852	102,6	54'	0,2199881	472,9	0,9762546	106,7
13'	0,2116091		0,97773544	102,7	55'	0,2201300	472,8	0,9762529	106,8
14'	0,2117513		0,97773236		56'	0,2202718		0,9762512	106,9
14'	0,2118934		0,97772928	102,8	57'	0,2204137		0,9762495	107,0
15'	0,2120356	473,8	0,97772620	102,9	58'	0,2205556		0,9762478	107,1
15'	0,2121777	473,7	0,97772311	103,0	59'	0,2206974		0,9762461	107,1
16'	0,2123198		0,97772002		60'	0,2208392		0,9762444	107,2
16'	0,2124619	473,8	0,97771693	103,1	1'	0,2209811		0,9762427	107,3
17'	0,2126041		0,97771384	103,2	2'	0,2211230		0,9762410	107,3
17'	0,2127462	473,7	0,97771075		3'	0,2212648		0,9762393	107,4
18'	0,2128883		0,97770765	103,3	4'	0,2214066		0,9762376	107,4
18'	0,2130304		0,97770456	103,4	5'	0,2215485	472,7	0,9762359	107,5
19'	0,2131725		0,97770145	103,5	6'	0,2216903	472,6	0,9762342	107,5
19'	0,2133146		0,97769836	103,6	7'	0,2218321	472,5	0,9762325	107,6
20'	0,2134567	473,6	0,97769526	103,7	8'	0,2219740	472,4	0,9762308	107,6
20'	0,2135988	473,5	0,97769215		9'	0,2221158		0,9762291	107,7
21'	0,2137408	473,6	0,97768904	103,8	10'	0,2222576		0,9762274	107,8
21'	0,2138829	473,7	0,97768593		11'	0,2223994		0,9762257	107,8
22'	0,2140250	473,6	0,97768281		12'	0,2225412		0,9762240	107,9
22'	0,2141671	473,5	0,97767970	103,9	13'	0,2226830		0,9762223	108,0
23'	0,2143091		0,97767659	104,0	14'	0,2228248	472,6	0,9762206	108,1
23'	0,2144512		0,97767347	104,1	15'	0,2229666	472,5	0,9762189	108,1
24'	0,2145933		0,97767035	104,2	16'	0,2231083	472,4	0,9762172	108,2
24'	0,2147353		0,97766723	104,3	17'	0,2232501	472,3	0,9762155	108,3
25'	0,2148774		0,97766410		18'	0,2233919	472,2	0,9762138	108,4
25'	0,2150194		0,97766098	104,4	19'	0,2235337	472,1	0,9762121	108,5
26'	0,2151614		0,97765785	104,5	20'	0,2236754		0,9762104	108,5
26'	0,2153035		0,97765472	104,6	21'	0,2238172		0,9762087	108,6
27'	0,2154455	473,4	0,97765159	104,7	22'	0,2239590	472,4	0,9762070	108,7
27'	0,2155876	473,3	0,97764845		23'	0,2241007	472,3	0,9762053	108,7
28'	0,2157296		0,97764531	104,8	24'	0,2242424		0,9762036	108,8
28'	0,2158716		0,97764217		25'	0,2243842	472,5	0,9762019	108,8
29'	0,2160136		0,97763903	104,9	26'	0,2245259		0,9762002	108,9
29'	0,2161556		0,97763589		27'	0,2246676		0,9761985	109,0
30'	0,2162976		0,97763275	104,9	28'	0,2248093	472,4	0,9761968	109,1
30'	0,2164396		0,97762960		29'	0,2249511		0,9761951	109,1

13 deg.

	sin.	diff. 10"	co-sin.	diff. 10"		sin.	diff. 10"	co-sin.	diff. 10"
0'	0,2249511	472,3	0,9743701	109,2	60'	0,2334454	471,3	0,9723699	113,3
30'	0,2250228		0,9743373		30'	0,2335868		0,9723319	
1'	0,2250346		0,9743046	109,3	50'	0,2337282		0,9722939	113,4
30'	0,2250752		0,9742718		30'	0,2338696		0,9722559	
2'	0,2251179		0,9742390	109,4	30'	0,2340110		0,9722179	113,5
30'	0,2251586		0,9742062		30'	0,2341524		0,9721799	
3'	0,2251813	472,2	0,9741734	109,5	30'	0,2342938		0,9721419	113,6
30'	0,2251949		0,9741406		30'	0,2344352		0,9721039	
4'	0,2252086	472,3	0,9741077	109,6	30'	0,2345766		0,9720659	113,7
30'	0,2252223		0,9740749		30'	0,2347180		0,9720279	
5'	0,2252360		0,9740419	109,8	30'	0,2348594		0,9719899	113,8
30'	0,2252506	472,2	0,9740090	109,9	30'	0,2350008	471,2	0,9719519	
6'	0,2252651		0,9739760	110,0	30'	0,2351421		0,9719139	113,9
30'	0,2252797		0,9739430		30'	0,2352835		0,9718759	
7'	0,2252946		0,9739100	110,1	30'	0,2354248		0,9718379	114,0
				110,2					
30'	0,2270763		0,9738769	110,3	30'	0,2355662		0,9717999	114,1
8'	0,2271179		0,9738439		30'	0,2357075		0,9717619	
30'	0,2271356	472,1	0,9738109	110,4	30'	0,2358489		0,9717239	114,2
9'	0,2271512		0,9737778		30'	0,2359902		0,9716859	
30'	0,2271648	472,1	0,9737447	110,5	30'	0,2361316	471,1	0,9716479	114,3
10'	0,2271784		0,9737116		30'	0,2362729		0,9716099	
30'	0,2271921	472,2	0,9736785	110,6	30'	0,2364142		0,9715719	114,4
11'	0,2272067		0,9736453		30'	0,2365555		0,9715339	
30'	0,2272203	472,1	0,9736121	110,7	30'	0,2366968		0,9714959	114,5
12'	0,2272350		0,9735789		30'	0,2368381		0,9714579	
30'	0,2272486	471,9	0,9735457	110,8	30'	0,2369794		0,9714199	114,6
13'	0,2272631		0,9735124		30'	0,2371207		0,9713819	
30'	0,2272767	471,8	0,9734791	110,9	30'	0,2372620		0,9713439	114,7
14'	0,2272912		0,9734458		30'	0,2374033		0,9713059	
30'	0,2273048	472,0	0,9734125	111,0	30'	0,2375446	470,9	0,9712679	114,8
				111,1					
15'	0,2292004		0,9733792	111,2	40'	0,2376859		0,9712299	114,9
30'	0,2292141	471,8	0,9733458	111,3	30'	0,2378272	470,8	0,9711919	
16'	0,2292286		0,9733125		30'	0,2379685		0,9711539	115,0
30'	0,2292421		0,9732791	111,4	30'	0,2381097	470,9	0,9711159	
17'	0,2292566		0,9732457		30'	0,2382510		0,9710779	115,1
30'	0,2292702	471,7	0,9732123	111,5	30'	0,2383922		0,9710399	
18'	0,2292847		0,9731788		30'	0,2385335		0,9710019	115,2
30'	0,2292982		0,9731453	111,6	30'	0,2386747	470,7	0,9709639	
19'	0,2293128		0,9731118		30'	0,2388159		0,9709259	115,3
30'	0,2293263	471,6	0,9730783	111,7	30'	0,2389571	470,8	0,9708879	
20'	0,2293409		0,9730448		30'	0,2390984		0,9708499	115,4
30'	0,2293544	471,5	0,9730113	111,8	30'	0,2392396		0,9708119	
21'	0,2293689		0,9729777		30'	0,2393808		0,9707739	115,5
30'	0,2293824		0,9729441	111,9	30'	0,2395221	470,6	0,9707359	
22'	0,2293969		0,9729105		30'	0,2396633		0,9706979	115,6
				112,0					
30'	0,2313234		0,9728768	112,1	30'	0,2398045		0,9706599	115,7
23'	0,2313454		0,9728432		30'	0,2399457		0,9706219	
30'	0,2313604	471,6	0,9728095	112,2	30'	0,2400869	470,5	0,9705839	115,8
24'	0,2313749		0,9727758		30'	0,2402280		0,9705459	
30'	0,2313894		0,9727421	112,3	30'	0,2403692		0,9705079	115,9
25'	0,2314039		0,9727084		30'	0,2405104		0,9704699	
30'	0,2314183	471,5	0,9726747	112,4	30'	0,2406516	470,4	0,9704319	116,0
26'	0,2314328		0,9726409		30'	0,2407927		0,9703939	
30'	0,2314473		0,9726071	112,5	30'	0,2409339		0,9703559	116,1
27'	0,2314617		0,9725733		30'	0,2410751		0,9703179	
30'	0,2314762	471,4	0,9725395	112,6	30'	0,2412163	470,3	0,9702799	116,2
28'	0,2314906		0,9725056		30'	0,2413575		0,9702419	
30'	0,2315051		0,9724717	112,7	30'	0,2414987		0,9702039	116,3
29'	0,2315195		0,9724378		30'	0,2416399		0,9701659	
30'	0,2315339		0,9724038	112,8	30'	0,2417811	470,2	0,9701279	116,4
30'	0,2334454		0,9723699		30'	0,2419223		0,9700899	
				109,2					
co-sin.	10"	sin.	10"	diff.	co-sin.	10"	sin.	10"	diff.

	sin.	diff. 10'	co-sin.	diff. 10'		sin.	diff. 10'	co-sin.	diff. 10'		sin.	diff. 10'	co-sin.	diff. 10'		sin.	diff. 10'	co-sin.	diff. 10'
0	0,2419291		0,9774957		60	0,2503380		0,9681476		30	0,2587465		0,9608535		30	0,2587465		0,9608535	
30	0,2419530		0,9774905		30	0,2503516		0,9681424		30	0,2587599		0,9608531		30	0,2587732		0,9608528	
1	0,2420041		0,9774853		17,5	0,2503651		0,9681372		30	0,2587865		0,9608525		30	0,2588000		0,9608522	
30	0,2420345		0,9774801		17,5	0,2503786		0,9681320		30	0,2588133		0,9608520		30	0,2588266		0,9608517	
2	0,2420856		0,9774749		17,7	0,2503921		0,9681268		30	0,2588399		0,9608516		30	0,2588532		0,9608513	
30	0,2426274		0,9770114		30	0,2521040		0,9673180		469,2	0,2598159		0,9608513		30	0,2598292		0,9608510	
30	0,2426785		0,9770062		30	0,2521174		0,9673128		469,2	0,2598392		0,9608510		30	0,2598525		0,9608507	
30	0,2426900		0,9770010		30	0,2521308		0,9673076		469,2	0,2598626		0,9608507		30	0,2598759		0,9608504	
4	0,2426957		0,9770013		50	0,2521441		0,9673024		469,2	0,2598859		0,9608504		30	0,2598992		0,9608501	
30	0,2426918		0,9679972		117,9	0,2521575		0,9672972		469,2	0,2599092		0,9608498		30	0,2599325		0,9608495	
5	0,2423321		0,9679948		55	0,2521707		0,9672920		469,2	0,2599529		0,9608495		30	0,2599762		0,9608492	
30	0,2423373		0,9679907		118,0	0,2521840		0,9672868		469,2	0,2599995		0,9608492		30	0,2600202		0,9608489	
30	0,2423615		0,9679870		118,2	0,2521973		0,9672816		469,2	0,2600432		0,9608489		30	0,2600641		0,9608486	
30	0,2423751		0,9679835		118,3	0,2522106		0,9672764		469,2	0,2600869		0,9608486		30	0,2601080		0,9608483	
7	0,2423871		0,9679811		118,3	0,2522239		0,9672712		469,2	0,2601307		0,9608483		30	0,2601519		0,9608480	
30	0,2440381		0,9677656		118,4	0,2522372		0,9672660		469,2	0,2601745		0,9608477		30	0,2601957		0,9608477	
30	0,2441792		0,9677604		118,5	0,2522505		0,9672608		469,2	0,2602183		0,9608474		30	0,2602369		0,9608474	
30	0,2442103		0,9677552		470,1	0,2522638		0,9672556		469,2	0,2602621		0,9608471		30	0,2602757		0,9608471	
0	0,2441451		0,9677500		470,0	0,2522771		0,9672504		469,2	0,2603059		0,9608468		30	0,2603193		0,9608468	
30	0,2441602		0,9677448		470,1	0,2522904		0,9672452		469,2	0,2603491		0,9608465		30	0,2603625		0,9608465	
10	0,2447433		0,9675872		470,2	0,2523037		0,9672400		469,2	0,2603923		0,9608462		30	0,2604057		0,9608462	
30	0,2447844		0,9675820		470,1	0,2523170		0,9672348		469,2	0,2604355		0,9608459		30	0,2604490		0,9608459	
11	0,2450255		0,9675767		470,0	0,2523303		0,9672296		469,2	0,2604787		0,9608456		30	0,2604922		0,9608456	
30	0,2450564		0,9675715		118,9	0,2523436		0,9672244		469,2	0,2605219		0,9608453		30	0,2605353		0,9608453	
12	0,2452074		0,9675662		119,0	0,2523569		0,9672192		469,2	0,2605651		0,9608450		30	0,2605785		0,9608450	
30	0,2454848		0,9675609		119,1	0,2523702		0,9672140		469,2	0,2606083		0,9608447		30	0,2606217		0,9608447	
13	0,2456894		0,9675557		119,2	0,2523835		0,9672088		469,2	0,2606515		0,9608444		30	0,2606650		0,9608444	
30	0,2457303		0,9675504		119,2	0,2523968		0,9672036		469,2	0,2606947		0,9608441		30	0,2607082		0,9608441	
14	0,2458713		0,9675452		469,0	0,2524101		0,9671984		469,2	0,2607374		0,9608438		30	0,2607515		0,9608438	
30	0,2460123		0,9675400		469,9	0,2524234		0,9671932		469,2	0,2607806		0,9608435		30	0,2607947		0,9608435	
15	0,2461533		0,9675347		469,8	0,2524367		0,9671880		469,2	0,2608238		0,9608432		30	0,2608379		0,9608432	
30	0,2462942		0,9675295		119,5	0,2524500		0,9671828		469,2	0,2608670		0,9608429		30	0,2608811		0,9608429	
16	0,2464352		0,9675242		469,8	0,2524633		0,9671776		469,2	0,2609102		0,9608426		30	0,2609242		0,9608426	
30	0,2465761		0,9675190		119,6	0,2524766		0,9671724		469,2	0,2609534		0,9608423		30	0,2609673		0,9608423	
17	0,2467171		0,9675137		119,7	0,2524899		0,9671672		469,2	0,2609966		0,9608420		30	0,2610105		0,9608420	
30	0,2468581		0,9675085		469,7	0,2525032		0,9671620		469,2	0,2610397		0,9608417		30	0,2610536		0,9608417	
18	0,2469990		0,9675032		469,8	0,2525165		0,9671568		469,2	0,2610829		0,9608414		30	0,2610968		0,9608414	
30	0,2471399		0,9674980		119,8	0,2525298		0,9671516		469,2	0,2611260		0,9608411		30	0,2611401		0,9608411	
19	0,2472809		0,9674927		119,9	0,2525431		0,9671464		469,2	0,2611692		0,9608408		30	0,2611832		0,9608408	
30	0,2474218		0,9674875		119,9	0,2525564		0,9671412		469,2	0,2612124		0,9608405		30	0,2612263		0,9608405	
20	0,2475627		0,9674822		469,7	0,2525697		0,9671360		469,2	0,2612556		0,9608402		30	0,2612695		0,9608402	
30	0,2477036		0,9674770		469,8	0,2525830		0,9671308		469,2	0,2612987		0,9608399		30	0,2613127		0,9608399	
21	0,2478445		0,9674717		120,1	0,2525963		0,9671256		469,2	0,2613419		0,9608396		30	0,2613558		0,9608396	
30	0,2479854		0,9674665		120,2	0,2526096		0,9671204		469,2	0,2613850		0,9608393		30	0,2613989		0,9608393	
22	0,2481263		0,9674613		120,3	0,2526229		0,9671152		469,2	0,2614282		0,9608390		30	0,2614421		0,9608390	
30	0,2482672		0,9674560		469,5	0,2526362		0,9671100		469,2	0,2614713		0,9608387		30	0,2614852		0,9608387	
23	0,2484080		0,9674508		120,5	0,2526495		0,9671048		469,2	0,2615145		0,9608384		30	0,2615283		0,9608384	
30	0,2485489		0,9674456		120,6	0,2526628		0,9670996		469,2	0,2615576		0,9608381		30	0,2615715		0,9608381	
30	0,2486898		0,9674404		120,7	0,2526761		0,9670944		469,2	0,2616007		0,9608378		30	0,2616147		0,9608378	
25	0,2487716		0,9674352		120,8	0,2526894		0,9670892		469,2	0,2616439		0,9608375		30	0,2616571		0,9608375	
30	0,2490124		0,9674300		121,0	0,2527027		0,9670840		469,2	0,2616870		0,9608372		30	0,2617003		0,9608372	
26	0,2492532		0,9674248		121,0	0,2527160		0,9670788		469,2	0,2617301		0,9608369		30	0,2617435		0,9608369	
30	0,2494940		0,9674196		121,1	0,2527293		0,9670736		469,2	0,2617732		0,9608366		30	0,2617867		0,9608366	
27	0,2497348		0,9674144		121,2	0,2527426		0,9670684		469,2	0,2618163		0,9608363		30	0,2618299		0,9608363	
30	0,2499756		0,9674092		121,3	0,2527559		0,9670632		469,2	0,2618594		0,9608360		30	0,2618730		0,9608360	
28	0,2502164		0,9674040		121,3	0,2527692		0,9670580		469,2	0,2619025		0,9608357		30	0,2619161		0,9608357	
30	0,2504572		0,9673988		121,4	0,2527825		0,9670528		469,2	0,2619456		0,9608354		30	0,2619592		0,9608354	
30	0,2506980		0,9673936		121,4	0,2527958		0,9670476		469,2	0,2619887		0,9608351		30	0,2620023		0,9608351	
30	0,2509388		0,9673884		121,4	0,2528091		0,9670424		469,2	0,2620318		0,9608348		30	0,2620454		0,9608348	
co-sin.	10'	diff.	sin.	10'	diff.	co-sin.	10'	diff.	sin.	10'	diff.	co-sin.	10'	diff.	sin.	10'	diff.	co-sin.	10'

15 deg.

	sin.	diff. 10''	co-sin.	diff. 10''			sin.	diff. 10''	co-sin.	diff. 10''			sin.	diff. 10''	co-sin.	diff. 10''	
0'	0,2588190		0,9659258	60'	30'	0,2672384	467,2	0,9653305	129,7	30'			0,2672384	467,2	0,9653305	129,7	
30'	0,2589695	468,3	0,9658884	125,5	30'	0,2673786	467,1	0,9652916	129,7	30'			0,2673786	467,1	0,9652916	129,7	
1'	0,2591000		0,9658505	125,6	31'	0,2675187	467,0	0,9652447	129,7	30'			0,2675187	467,0	0,9652447	129,7	
30'	0,2592405		0,9658128	125,7	32'	0,2676588	467,1	0,9651978	129,7	30'			0,2676588	467,1	0,9651978	129,7	
2'	0,2593810	468,2	0,9657751	125,8	32'	0,2677989	467,2	0,9651509	129,7	30'			0,2677989	467,2	0,9651509	129,7	
30'	0,2595215		0,9657374	125,9	33'	0,2679391	467,1	0,9651040	129,7	30'			0,2679391	467,1	0,9651040	129,7	
3'	0,2596619		0,9656996	126,0	33'	0,2680792	467,0	0,9650571	129,7	30'			0,2680792	467,0	0,9650571	129,7	
30'	0,2598023		0,9656618	126,0	34'	0,2682193		0,9650102	129,7	30'			0,2682193		0,9650102	129,7	
4'	0,2599428		0,9656240	126,1	34'	0,2683594		0,9649633	129,7	30'			0,2683594		0,9649633	129,7	
30'	0,2600833		0,9655861	126,2	35'	0,2684995		0,9649164	129,7	30'			0,2684995		0,9649164	129,7	
5'	0,2602237	468,1	0,9655483	126,3	35'	0,2686396		0,9648695	129,7	30'			0,2686396		0,9648695	129,7	
30'	0,2603641	468,0	0,9655104	126,4	36'	0,2687797		0,9648226	129,7	30'			0,2687797		0,9648226	129,7	
6'	0,2605045		0,9654726	126,5	36'	0,2689198		0,9647757	129,7	30'			0,2689198		0,9647757	129,7	
30'	0,2606449		0,9654347	126,6	37'	0,2690599	467,2	0,9647288	129,7	30'			0,2690599	467,2	0,9647288	129,7	
7'	0,2607853		0,9653968	126,7	37'	0,2691999	466,8	0,9646819	129,7	30'			0,2691999	466,8	0,9646819	129,7	
30'	0,2609257		0,9653589	126,8	38'	0,2693400		0,9646350	129,7	30'			0,2693400		0,9646350	129,7	
8'	0,2610662		0,9653210	126,9	38'	0,2694801		0,9645881	129,7	30'			0,2694801		0,9645881	129,7	
30'	0,2612066		0,9652831	127,0	39'	0,2696202		0,9645412	129,7	30'			0,2696202		0,9645412	129,7	
9'	0,2613469		0,9652452	127,1	39'	0,2697603		0,9644943	129,7	30'			0,2697603		0,9644943	129,7	
30'	0,2614873		0,9652073	127,2	40'	0,2699004		0,9644474	129,7	30'			0,2699004		0,9644474	129,7	
10'	0,2616277	467,9	0,9651694	127,3	40'	0,2700405	466,3	0,9644005	129,7	30'			0,2700405	466,3	0,9644005	129,7	
30'	0,2617681	467,8	0,9651315	127,4	41'	0,2701806		0,9643536	129,7	30'			0,2701806		0,9643536	129,7	
11'	0,2619085		0,9650936	127,5	41'	0,2703207		0,9643067	129,7	30'			0,2703207		0,9643067	129,7	
30'	0,2620488		0,9650557	127,6	42'	0,2704608		0,9642598	129,7	30'			0,2704608		0,9642598	129,7	
12'	0,2621892		0,9650178	127,7	42'	0,2706009		0,9642129	129,7	30'			0,2706009		0,9642129	129,7	
30'	0,2623295		0,9649799	127,8	43'	0,2707410		0,9641660	129,7	30'			0,2707410		0,9641660	129,7	
13'	0,2624699		0,9649420	127,9	43'	0,2708811		0,9641191	129,7	30'			0,2708811		0,9641191	129,7	
30'	0,2626103		0,9649041	128,0	44'	0,2710212		0,9640722	129,7	30'			0,2710212		0,9640722	129,7	
14'	0,2627506	467,7	0,9648662	128,1	44'	0,2711613	466,7	0,9640253	129,7	30'			0,2711613	466,7	0,9640253	129,7	
30'	0,2628909		0,9648283	128,2	45'	0,2713014	466,6	0,9639784	129,7	30'			0,2713014	466,6	0,9639784	129,7	
15'	0,2630312		0,9647904	127,7	45'	0,2714415	466,5	0,9639315	129,7	30'			0,2714415	466,5	0,9639315	129,7	
30'	0,2631715		0,9647525	127,8	46'	0,2715816		0,9638846	129,7	30'			0,2715816		0,9638846	129,7	
16'	0,2633118		0,9647146	127,9	46'	0,2717217		0,9638377	129,7	30'			0,2717217		0,9638377	129,7	
30'	0,2634521		0,9646767	128,0	47'	0,2718618		0,9637908	129,7	30'			0,2718618		0,9637908	129,7	
17'	0,2635925		0,9646388	128,1	47'	0,2720019		0,9637439	129,7	30'			0,2720019		0,9637439	129,7	
30'	0,2637328		0,9646009	128,2	48'	0,2721420		0,9636970	129,7	30'			0,2721420		0,9636970	129,7	
18'	0,2638731		0,9645630	128,3	48'	0,2722821		0,9636501	129,7	30'			0,2722821		0,9636501	129,7	
30'	0,2640134		0,9645251	128,4	49'	0,2724222		0,9636032	129,7	30'			0,2724222		0,9636032	129,7	
19'	0,2641537		0,9644872	128,5	49'	0,2725623		0,9635563	129,7	30'			0,2725623		0,9635563	129,7	
30'	0,2642940	467,6	0,9644493	128,6	50'	0,2727024	466,4	0,9635094	129,7	30'			0,2727024	466,4	0,9635094	129,7	
20'	0,2644343		0,9644114	128,7	50'	0,2728425	466,3	0,9634625	129,7	30'			0,2728425	466,3	0,9634625	129,7	
30'	0,2645746	467,5	0,9643735	128,8	51'	0,2729826		0,9634156	129,7	30'			0,2729826		0,9634156	129,7	
21'	0,2647149		0,9643356	128,9	51'	0,2731227		0,9633687	129,7	30'			0,2731227		0,9633687	129,7	
30'	0,2648552	467,4	0,9642977	129,0	52'	0,2732628		0,9633218	129,7	30'			0,2732628		0,9633218	129,7	
22'	0,2649955	467,3	0,9642598	129,1	52'	0,2734029		0,9632749	129,7	30'			0,2734029		0,9632749	129,7	
30'	0,2651358		0,9642219	129,2	53'	0,2735430		0,9632280	129,7	30'			0,2735430		0,9632280	129,7	
23'	0,2652761		0,9641840	129,3	53'	0,2736831		0,9631811	129,7	30'			0,2736831		0,9631811	129,7	
30'	0,2654164		0,9641461	129,4	54'	0,2738232		0,9631342	129,7	30'			0,2738232		0,9631342	129,7	
24'	0,2655567		0,9641082	129,5	54'	0,2739633		0,9630873	129,7	30'			0,2739633		0,9630873	129,7	
30'	0,2656970		0,9640703	129,6	55'	0,2741034		0,9630404	129,7	30'			0,2741034		0,9630404	129,7	
25'	0,2658373		0,9640324	129,7	55'	0,2742435		0,9629935	129,7	30'			0,2742435		0,9629935	129,7	
30'	0,2659776		0,9639945	129,8	56'	0,2743836		0,9629466	129,7	30'			0,2743836		0,9629466	129,7	
26'	0,2661179		0,9639566	129,9	56'	0,2745237		0,9628997	129,7	30'			0,2745237		0,9628997	129,7	
30'	0,2662582		0,9639187	130,0	57'	0,2746638		0,9628528	129,7	30'			0,2746638		0,9628528	129,7	
27'	0,2663985		0,9638808	130,1	57'	0,2748039		0,9628059	129,7	30'			0,2748039		0,9628059	129,7	
30'	0,2665388		0,9638429	130,2	58'	0,2749440		0,9627590	129,7	30'			0,2749440		0,9627590	129,7	
28'	0,2666791		0,9638050	130,3	58'	0,2750841		0,9627121	129,7	30'			0,2750841		0,9627121	129,7	
30'	0,2668194		0,9637671	130,4	59'	0,2752242		0,9626652	129,7	30'			0,2752242		0,9626652	129,7	
29'	0,2669597	467,2	0,9637292	130,5	59'	0,2753643	466,1	0,9626183	129,7	30'			0,2753643	466,1	0,9626183	129,7	
30'	0,2670999		0,9636913	130,6	60'	0,2755044	466,0	0,9625714	129,7	30'			0,2755044	466,0	0,9625714	129,7	
30'	0,2672402		0,9636534	130,7				0,9625245	129,7	30'							129,7
	co-sin.	10''	sin.	10''		co-sin.	10''	sin.	10''		co-sin.	10''	sin.	10''		co-sin.	10''

74 deg.

16 deg.

	sin.	diff. 10'	co-sin.	diff. 10'		sin.	diff. 10'	co-sin.	diff. 10'		sin.	diff. 10'	co-sin.	diff. 10'		sin.	diff. 10'	co-sin.	diff. 10'
0	0,2765374	465,0	0,9612617	133,7	60	0,2840153	464,8	0,9588197	137,8	30	0,2840153	464,8	0,9588197	137,8	30	0,2840153	464,8	0,9588197	137,8
1	0,2765377	465,0	0,9612618	133,7	30	0,2841647	464,8	0,9587783	137,8	31	0,2841647	464,8	0,9587783	137,8	31	0,2841647	464,8	0,9587783	137,8
2	0,2765380	465,0	0,9612619	133,7	32	0,2843142	464,8	0,9587370	137,9	32	0,2843142	464,8	0,9587370	137,9	32	0,2843142	464,8	0,9587370	137,9
3	0,2765383	465,0	0,9612620	133,7	33	0,2844636	464,8	0,9586957	137,9	33	0,2844636	464,8	0,9586957	137,9	33	0,2844636	464,8	0,9586957	137,9
4	0,2765386	465,0	0,9612621	133,7	34	0,2846130	464,8	0,9586543	138,0	34	0,2846130	464,8	0,9586543	138,0	34	0,2846130	464,8	0,9586543	138,0
5	0,2765389	465,0	0,9612622	133,7	35	0,2847624	464,8	0,9586130	138,1	35	0,2847624	464,8	0,9586130	138,1	35	0,2847624	464,8	0,9586130	138,1
6	0,2765392	465,0	0,9612623	133,7	36	0,2849118	464,8	0,9585717	138,1	36	0,2849118	464,8	0,9585717	138,1	36	0,2849118	464,8	0,9585717	138,1
7	0,2765395	465,0	0,9612624	133,7	37	0,2850612	464,8	0,9585304	138,2	37	0,2850612	464,8	0,9585304	138,2	37	0,2850612	464,8	0,9585304	138,2
8	0,2765398	465,0	0,9612625	133,7	38	0,2852106	464,8	0,9584891	138,2	38	0,2852106	464,8	0,9584891	138,2	38	0,2852106	464,8	0,9584891	138,2
9	0,2765401	465,0	0,9612626	133,7	39	0,2853599	464,8	0,9584478	138,3	39	0,2853599	464,8	0,9584478	138,3	39	0,2853599	464,8	0,9584478	138,3
10	0,2765404	465,0	0,9612627	133,7	40	0,2855093	464,8	0,9584065	138,3	40	0,2855093	464,8	0,9584065	138,3	40	0,2855093	464,8	0,9584065	138,3
11	0,2765407	465,0	0,9612628	133,7	41	0,2856587	464,8	0,9583652	138,4	41	0,2856587	464,8	0,9583652	138,4	41	0,2856587	464,8	0,9583652	138,4
12	0,2765410	465,0	0,9612629	133,7	42	0,2858080	464,8	0,9583239	138,4	42	0,2858080	464,8	0,9583239	138,4	42	0,2858080	464,8	0,9583239	138,4
13	0,2765413	465,0	0,9612630	133,7	43	0,2859574	464,8	0,9582826	138,5	43	0,2859574	464,8	0,9582826	138,5	43	0,2859574	464,8	0,9582826	138,5
14	0,2765416	465,0	0,9612631	133,7	44	0,2861068	464,8	0,9582413	138,5	44	0,2861068	464,8	0,9582413	138,5	44	0,2861068	464,8	0,9582413	138,5
15	0,2765419	465,0	0,9612632	133,7	45	0,2862561	464,8	0,9582000	138,6	45	0,2862561	464,8	0,9582000	138,6	45	0,2862561	464,8	0,9582000	138,6
16	0,2765422	465,0	0,9612633	133,7	46	0,2864055	464,8	0,9581587	138,6	46	0,2864055	464,8	0,9581587	138,6	46	0,2864055	464,8	0,9581587	138,6
17	0,2765425	465,0	0,9612634	133,7	47	0,2865549	464,8	0,9581174											

73 deg.

17 deg.

	sin.	diff. 10''	co-sin.	diff. 10''		sin.	diff. 10''	co-sin.	diff. 10''
0'	0,2923717	463,7	0,9563048	141,8	60'	0,3007058	469,3	0,9537169	145,8
30'	0,2925109	463,8	0,9562623	141,9	30'	0,3008448	469,3	0,9536732	145,9
1'	0,2926499	463,9	0,9562197	142,0	50'	0,3009832	469,3	0,9536294	146,0
30'	0,2927890	464,0	0,9561771	142,1	30'	0,3011219	469,3	0,9535856	146,1
1'	0,2929280	464,1	0,9561345	142,2	50'	0,3012605	469,3	0,9535418	146,2
30'	0,2930670	464,2	0,9560918	142,3	30'	0,3013993	469,3	0,9534980	146,3
30'	0,2932061	464,3	0,9560492	142,4	30'	0,3015380	469,3	0,9534541	146,4
30'	0,2933452	464,4	0,9560065	142,5	30'	0,3016767	469,3	0,9534102	146,5
30'	0,2934842	464,5	0,9559639	142,6	30'	0,3018153	469,3	0,9533664	146,6
30'	0,2936233	464,6	0,9559212	142,7	30'	0,3019539	469,3	0,9533225	146,7
30'	0,2937623	464,7	0,9558785	142,8	30'	0,3020925	469,3	0,9532786	146,8
30'	0,2939013	464,8	0,9558358	142,9	30'	0,3022313	469,3	0,9532347	146,9
30'	0,2940403	464,9	0,9557930	143,0	30'	0,3023699	469,3	0,9531907	147,0
30'	0,2941793	465,0	0,9557502	143,1	30'	0,3025085	469,3	0,9531467	147,1
30'	0,2943183	465,1	0,9557074	143,2	30'	0,3026471	469,3	0,9531027	147,2
30'	0,2944573	465,2	0,9556645	143,3	30'	0,3027858	469,3	0,9530587	147,3
30'	0,2945963	465,3	0,9556217	143,4	30'	0,3029244	469,3	0,9530146	147,4
30'	0,2947353	465,4	0,9555789	143,5	30'	0,3030630	469,3	0,9529705	147,5
30'	0,2948743	465,5	0,9555360	143,6	30'	0,3032016	469,3	0,9529264	147,6
30'	0,2950133	465,6	0,9554931	143,7	30'	0,3033402	469,3	0,9528823	147,7
30'	0,2951522	465,7	0,9554502	143,8	30'	0,3034788	469,3	0,9528382	147,8
30'	0,2952912	465,8	0,9554072	143,9	30'	0,3036173	469,3	0,9527941	147,9
30'	0,2954302	465,9	0,9553643	144,0	30'	0,3037559	469,3	0,9527500	148,0
30'	0,2955692	466,0	0,9553213	144,1	30'	0,3038945	469,3	0,9527059	148,1
30'	0,2957081	466,1	0,9552783	144,2	30'	0,3040331	469,3	0,9526618	148,2
30'	0,2958470	466,2	0,9552352	144,3	30'	0,3041717	469,3	0,9526177	148,3
30'	0,2959859	466,3	0,9551922	144,4	30'	0,3043103	469,3	0,9525736	148,4
30'	0,2961249	466,4	0,9551492	144,5	30'	0,3044489	469,3	0,9525295	148,5
30'	0,2962638	466,5	0,9551061	144,6	30'	0,3045872	469,3	0,9524854	148,6
30'	0,2964027	466,6	0,9550630	144,7	30'	0,3047257	469,3	0,9524413	148,7
30'	0,2965416	466,7	0,9550199	144,8	30'	0,3048643	469,3	0,9523972	148,8
30'	0,2966805	466,8	0,9549768	144,9	30'	0,3050028	469,3	0,9523531	148,9
30'	0,2968194	466,9	0,9549336	145,0	30'	0,3051413	469,3	0,9523090	149,0
30'	0,2969583	467,0	0,9548904	145,1	30'	0,3052797	469,3	0,9522649	149,1
30'	0,2970971	467,1	0,9548472	145,2	30'	0,3054183	469,3	0,9522208	149,2
30'	0,2972360	467,2	0,9548040	145,3	30'	0,3055568	469,3	0,9521767	149,3
30'	0,2973749	467,3	0,9547607	145,4	30'	0,3056953	469,3	0,9521326	149,4
30'	0,2975137	467,4	0,9547174	145,5	30'	0,3058338	469,3	0,9520885	149,5
30'	0,2976526	467,5	0,9546742	145,6	30'	0,3059723	469,3	0,9520444	149,6
30'	0,2977915	467,6	0,9546309	145,7	30'	0,3061108	469,3	0,9519999	149,7
30'	0,2979303	467,7	0,9545876	145,8	30'	0,3062492	469,3	0,9519558	149,8
30'	0,2980691	467,8	0,9545443	145,9	30'	0,3063877	469,3	0,9519117	149,9
30'	0,2982079	467,9	0,9545009	146,0	30'	0,3065261	469,3	0,9518676	150,0
30'	0,2983467	468,0	0,9544575	146,1	30'	0,3066645	469,3	0,9518235	150,1
30'	0,2984855	468,1	0,9544141	146,2	30'	0,3068030	469,3	0,9517794	150,2
30'	0,2986244	468,2	0,9543707	146,3	30'	0,3069414	469,3	0,9517353	150,3
30'	0,2987632	468,3	0,9543272	146,4	30'	0,3070799	469,3	0,9516912	150,4
30'	0,2989020	468,4	0,9542838	146,5	30'	0,3072182	469,3	0,9516471	150,5
30'	0,2990408	468,5	0,9542403	146,6	30'	0,3073566	469,3	0,9516030	150,6
30'	0,2991795	468,6	0,9541968	146,7	30'	0,3074950	469,3	0,9515589	150,7
30'	0,2993183	468,7	0,9541533	146,8	30'	0,3076334	469,3	0,9515148	150,8
30'	0,2994571	468,8	0,9541098	146,9	30'	0,3077718	469,3	0,9514707	150,9
30'	0,2995959	468,9	0,9540662	147,0	30'	0,3079102	469,3	0,9514266	151,0
30'	0,2997347	469,0	0,9540226	147,1	30'	0,3080486	469,3	0,9513825	151,1
30'	0,2998734	469,1	0,9539790	147,2	30'	0,3081869	469,3	0,9513384	151,2
30'	0,3000122	469,2	0,9539354	147,3	30'	0,3083252	469,3	0,9512943	151,3
30'	0,3001509	469,3	0,9538917	147,4	30'	0,3084635	469,3	0,9512502	151,4
30'	0,3002897	469,4	0,9538480	147,5	30'	0,3086019	469,3	0,9512061	151,5
30'	0,3004284	469,5	0,9538043	147,6	30'	0,3087403	469,3	0,9511620	151,6
30'	0,3005671	469,6	0,9537606	147,7	30'	0,3088786	469,3	0,9511179	151,7
30'	0,3007058	469,7	0,9537169	147,8	30'	0,3090170	469,3	0,9510738	151,8
co-sin.	10''	diff.	sin.	10''	co-sin.	10''	diff.	sin.	10''

72 deg.

	sin.	diff. 10''	co-sin.	diff. 10''		sin.	diff. 10''	co-sin.	diff. 10''		sin.	diff. 10''	co-sin.	diff. 10''
0'	0,3090170		0,9510566		60'	0,3173047		0,9483236		30'	0,3091583		0,9508417	
1'	0,3092366	461,0	0,9509115	149,8	30'	0,3174486	459,7	0,9481778	153,8	29'	0,3089951		0,9510068	
2'	0,3094519		0,9507663	149,9	50'	0,3175925		0,9480320	153,9	28'	0,3088324		0,9511619	
3'	0,3096702		0,9506211	150,0	30'	0,3177364		0,9478862	154,0	27'	0,3086677		0,9513170	
4'	0,3098885		0,9504759	150,1	58'	0,3178803		0,9477404	154,1	26'	0,3085030		0,9514721	
5'	0,3101068		0,9503307	150,2	30'	0,3180242		0,9475946	154,2	25'	0,3083383		0,9516272	
6'	0,3103251		0,9501855	150,3	57'	0,3181681		0,9474488	154,3	24'	0,3081736		0,9517823	
7'	0,3105434	460,8	0,9500403	150,4	30'	0,3183120		0,9473030	154,4	23'	0,3080089		0,9519374	
8'	0,3107617		0,9498951	150,5	56'	0,3184559		0,9471572	154,5	22'	0,3078442		0,9520925	
9'	0,3109799		0,9497500	150,6	30'	0,3186000		0,9470114	154,6	21'	0,3076795		0,9522476	
10'	0,3111982		0,9496048	150,7	55'	0,3187439		0,9468656	154,7	20'	0,3075148		0,9524027	
11'	0,3114165		0,9494596	150,8	30'	0,3188878		0,9467198	154,8	19'	0,3073501		0,9525578	
12'	0,3116348	460,7	0,9493144	150,9	54'	0,3190317		0,9465740	154,9	18'	0,3071854		0,9527129	
13'	0,3118531		0,9491692	151,0	30'	0,3191756		0,9464282	155,0	17'	0,3070207		0,9528680	
14'	0,3120714		0,9490240	151,1	51'	0,3193195		0,9462824	155,1	16'	0,3068560		0,9530231	
15'	0,3122897		0,9488788	151,2	30'	0,3194634		0,9461366	155,2	15'	0,3066913		0,9531782	
16'	0,3125080		0,9487336	151,3	50'	0,3196073		0,9459908	155,3	14'	0,3065266		0,9533333	
17'	0,3127263	460,6	0,9485884	151,4	30'	0,3197512		0,9458450	155,4	13'	0,3063619		0,9534884	
18'	0,3129446		0,9484432	151,5	50'	0,3198951		0,9456992	155,5	12'	0,3061972		0,9536435	
19'	0,3131629		0,9482980	151,6	30'	0,3200390		0,9455534	155,6	11'	0,3060325		0,9537986	
20'	0,3133812		0,9481528	151,7	49'	0,3201829		0,9454076	155,7	10'	0,3058678		0,9539537	
21'	0,3135995		0,9480076	151,8	30'	0,3203268		0,9452618	155,8	9'	0,3057031		0,9541088	
22'	0,3138178	460,5	0,9478624	151,9	50'	0,3204707		0,9451160	155,9	8'	0,3055384		0,9542639	
23'	0,3140361		0,9477172	152,0	30'	0,3206146		0,9449702	156,0	7'	0,3053737		0,9544190	
24'	0,3142544		0,9475720	152,1	49'	0,3207585		0,9448244	156,1	6'	0,3052090		0,9545741	
25'	0,3144727		0,9474268	152,2	30'	0,3209024		0,9446786	156,2	5'	0,3050443		0,9547292	
26'	0,3146910	460,4	0,9472816	152,3	50'	0,3210463		0,9445328	156,3	4'	0,3048796		0,9548843	
27'	0,3149093		0,9471364	152,4	30'	0,3211902		0,9443870	156,4	3'	0,3047149		0,9550394	
28'	0,3151276		0,9469912	152,5	49'	0,3213341		0,9442412	156,5	2'	0,3045502		0,9551945	
29'	0,3153459		0,9468460	152,6	30'	0,3214780		0,9440954	156,6	1'	0,3043855		0,9553496	
30'	0,3155642	460,3	0,9467008	152,7	50'	0,3216219		0,9439496	156,7	0'	0,3042208		0,9555047	
31'	0,3157825		0,9465556	152,8	30'	0,3217658		0,9438038	156,8					
32'	0,3160008		0,9464104	152,9	49'	0,3219097		0,9436580	156,9					
33'	0,3162191		0,9462652	153,0	30'	0,3220536		0,9435122	157,0					
34'	0,3164374	460,2	0,9461200	153,1	50'	0,3221975		0,9433664	157,1					
35'	0,3166557		0,9459748	153,2	30'	0,3223414		0,9432206	157,2					
36'	0,3168740		0,9458296	153,3	49'	0,3224853		0,9430748	157,3					
37'	0,3170923		0,9456844	153,4	30'	0,3226292		0,9429290	157,4					
38'	0,3173106	460,1	0,9455392	153,5	50'	0,3227731		0,9427832	157,5					
39'	0,3175289		0,9453940	153,6	30'	0,3229170		0,9426374	157,6					
40'	0,3177472		0,9452488	153,7	49'	0,3230609		0,9424916	157,7					
41'	0,3179655		0,9451036	153,8	30'	0,3232048		0,9423458	157,8					
42'	0,3181838	460,0	0,9449584	153,9	50'	0,3233487		0,9421999	157,9					
43'	0,3184021		0,9448132	154,0	30'	0,3234926		0,9420541	158,0					
44'	0,3186204		0,9446680	154,1	49'	0,3236365		0,9419083	158,1					
45'	0,3188387		0,9445228	154,2	30'	0,3237804		0,9417625	158,2					
46'	0,3190570	459,9	0,9443776	154,3	50'	0,3239243		0,9416167	158,3					
47'	0,3192753		0,9442324	154,4	30'	0,3240682		0,9414709	158,4					
48'	0,3194936		0,9440872	154,5	49'	0,3242121		0,9413251	158,5					
49'	0,3197119		0,9439420	154,6	30'	0,3243560		0,9411793	158,6					
50'	0,3199302	459,8	0,9437968	154,7	50'	0,3245000		0,9410335	158,7					
51'	0,3201485		0,9436516	154,8	30'	0,3246439		0,9408877	158,8					
52'	0,3203668		0,9435064	154,9	49'	0,3247878		0,9407419	158,9					
53'	0,3205851		0,9433612	155,0	30'	0,3249317		0,9405961	159,0					
54'	0,3208034	459,7	0,9432160	155,1	50'	0,3250756		0,9404503	159,1					
55'	0,3210217		0,9430708	155,2	30'	0,3252195		0,9403045	159,2					
56'	0,3212399		0,9429256	155,3	49'	0,3253634		0,9401587	159,3					
57'	0,3214582		0,9427804	155,4	30'	0,3255073		0,9400129	159,4					
58'	0,3216765	459,6	0,9426352	155,5	50'	0,3256512		0,9398671	159,5					
59'	0,3218948		0,9424900	155,6	30'	0,3257951		0,9397213	159,6					
60'	0,3221131		0,9423448	155,7	49'	0,3259390		0,9395755	159,7					
61'	0,3223314		0,9421996	155,8	30'	0,3260829		0,9394297	159,8					
62'	0,3225497	459,5	0,9420544	155,9	50'	0,3262268		0,9392839	159,9					
63'	0,3227680		0,9419092	156,0	30'	0,3263707		0,9391381	160,0					
64'	0,3229863		0,9417640	156,1	49'	0,3265146		0,9389923	160,1					
65'	0,3232046		0,9416188	156,2	30'	0,3266585		0,9388465	160,2					
66'	0,3234229	459,4	0,9414736	156,3	50'	0,3268024		0,9387007	160,3					
67'	0,3236412		0,9413284	156,4	30'	0,3269463		0,9385549	160,4					
68'	0,3238595		0,9411832	156,5	49'	0,3270902		0,9384091	160,5					
69'	0,3240778		0,9410380	156,6	30'	0,3272341		0,9382633	160,6					
70'	0,3242961	459,3	0,9408928	156,7	50'	0,3273780		0,9381175	160,7					
71'	0,3245144		0,9407476	156,8	30'	0,3275219		0,9379717	160,8					
72'	0,3247327		0,9406024	156,9	49'	0,3276658		0,9378259	160,9					
73'	0,3249510		0,9404572	157,0	30'	0,3278097		0,9376801	161,0					
74'	0,3251693	459,2	0,9403120	157,1	50'	0,3279536		0,9375343	161,1					
75'	0,3253876		0,9401668	157,2	30'	0,3280975		0,9373885	161,2					
76'	0,3256059		0,9400216	157,3	49'	0,3282414		0,9372427	161,3					
77'	0,3258242		0,9398764	157,4	30'	0,3283853		0,9370969	161,4					
78'	0,3260425	459,1	0,9397312	157,5	50'	0,3285292		0,9369511	161,5					
79'	0,3262608		0,9395860	157,6	30'	0,3286731		0,9368053	161,6					
80'	0,3264791		0,9394408	157,7	49'	0,3288170		0,9366595	161,7					
81'	0,3266974		0,9392956	157,8	30'	0,3289609		0,9365137	161,8					
82'	0,3269157	459,0	0,9391504	157,9	50'	0,3291048		0,9363679	161,9					
83'	0,3271340		0,9390052	158,0	30'	0,3292487		0,9362221	162,0					
84'	0,3273523		0,9388600	158,1	49'	0,3293926		0,9360763	162,1					
85'	0,3275706		0,9387148	158,2	30'	0,3295365		0,9359305	162,2					
86'	0,3277889	458,9	0,9385696	158,3	50'	0,3296804		0,9357847	162,3					
87'	0,3280072		0,9384244	158,4	30'	0,3298243		0,9356389	162,4					
88'	0,3282255		0,9382792	158,5	49'	0,3299682		0,9354931	162,5					
89'	0,3284438		0,9381340	158,6	30'	0,3301121		0,9353473	162,6					
90'	0,3286621	458,8	0,9379888	158,7	50'	0,3302560		0,9352015	162,7					
91'	0,3288804		0,9378436	158,8	30'	0,3304000		0,935						

19 deg.

[illegible]

70 deg

20 deg.

[illegible]

69 deg.

21 deg.

	sin.	diff. 10"	co-sin.	diff. 10"		sin.	diff. 10"	co-sin.	diff. 10"
0	0,3583679		0,9335804		30	0,3655012		0,9304475	
1	0,3585677	452,7	0,9333973	173,8	31	0,3656366	451,0	0,9303644	177,7
2	0,3587680	452,6	0,9332142	173,9	32	0,3657719		0,9302813	177,8
3	0,3589683	452,5	0,9330311	174,0	33	0,3659072		0,9301982	177,9
4	0,3591686		0,9328480		34	0,3660425		0,9301151	178,0
5	0,3593689		0,9326649		35	0,3661778	450,9	0,9300320	178,1
6	0,3595692		0,9324818	174,2	36	0,3663131	450,8	0,9299489	178,2
7	0,3597695	452,4	0,9322987	174,3	37	0,3664484		0,9298658	178,3
8	0,3599698	452,3	0,9321156	174,4	38	0,3665837		0,9297827	178,4
9	0,3601701		0,9319325		39	0,3667190		0,9296996	178,5
10	0,3603704		0,9317494		40	0,3668543	450,7	0,9296165	178,6
11	0,3605707		0,9315663		41	0,3669896		0,9295334	178,7
12	0,3607710	452,2	0,9313832	174,5	42	0,3671249		0,9294503	178,8
13	0,3609713	452,1	0,9311999	174,6	43	0,3672602		0,9293672	178,9
14	0,3611716	452,0	0,9310168	174,7	44	0,3673955		0,9292841	179,0
15	0,3613719		0,9308337		45	0,3675308	450,6	0,9292010	179,1
16	0,3615722		0,9306506		46	0,3676661	450,5	0,9291179	179,2
17	0,3617725	452,1	0,9304675	175,1	47	0,3678014		0,9290348	179,3
18	0,3619728	452,0	0,9302844	175,2	48	0,3679367	450,4	0,9289517	179,4
19	0,3621731	451,9	0,9301013	175,3	49	0,3680720	450,3	0,9288686	179,5
20	0,3623734	451,8	0,9299182	175,4	50	0,3682073		0,9287855	179,6
21	0,3625737		0,9297351		51	0,3683426		0,9287024	179,7
22	0,3627740		0,9295520		52	0,3684779	450,2	0,9286193	179,8
23	0,3629743		0,9293689		53	0,3686132		0,9285362	179,9
24	0,3631746	451,7	0,9291858	175,8	54	0,3687485		0,9284531	180,0
25	0,3633749	451,6	0,9290027	175,9	55	0,3688838		0,9283700	180,1
26	0,3635752		0,9288196		56	0,3690191	450,1	0,9282869	180,2
27	0,3637755		0,9286365		57	0,3691544	450,0	0,9282038	180,3
28	0,3639758	451,5	0,9284534	176,5	58	0,3692897		0,9281207	180,4
29	0,3641761	451,4	0,9282703	176,6	59	0,3694250	449,9	0,9280376	180,5
30	0,3643764	451,3	0,9280872	176,7	60	0,3695603	449,8	0,9279545	180,6
31	0,3645767		0,9279041						
32	0,3647770		0,9277210						
33	0,3649773		0,9275379						
34	0,3651776	451,2	0,9273548	177,3					
35	0,3653779	451,1	0,9271717	177,4					
36	0,3655782		0,9269886						
37	0,3657785		0,9268055						
38	0,3659788		0,9266224						
39	0,3661791		0,9264393						
40	0,3663794		0,9262562						
41	0,3665797		0,9260731						
42	0,3667800		0,9258900						
43	0,3669803		0,9257069						
44	0,3671806		0,9255238						
45	0,3673809		0,9253407						
46	0,3675812		0,9251576						
47	0,3677815		0,9249745						
48	0,3679818		0,9247914						
49	0,3681821		0,9246083						
50	0,3683824		0,9244252						
51	0,3685827		0,9242421						
52	0,3687830		0,9240590						
53	0,3689833		0,9238759						
54	0,3691836		0,9236928						
55	0,3693839		0,9235097						
56	0,3695842		0,9233266						
57	0,3697845		0,9231435						
58	0,3699848		0,9229604						
59	0,3701851		0,9227773						
60	0,3703854		0,9225942						
	co-sin.	10"	sin.	10"		co-sin.	10"	sin.	10"

68 deg.

22 deg.

	sin.	diff. 10''	co-sin.	diff. 10''		sin.	diff. 10''	co-sin.	diff. 10''		sin.	diff. 10''	co-sin.	diff. 10''
0'	0,3746056	449,6	0,9297183	181,7	60'	0,3896834	448,0	0,9237976	185,7	30'	0,3896834	448,0	0,9237976	185,7
1'	0,3747115	449,4	0,9297189	181,8	59'	0,3896834	447,9	0,9237976	185,7	29'	0,3896834	447,9	0,9237976	185,7
2'	0,3748211	449,4	0,9297190	181,9	58'	0,3896834	447,8	0,9237976	185,7	28'	0,3896834	447,8	0,9237976	185,7
3'	0,3749348	449,4	0,9297191	182,0	57'	0,3896834	447,7	0,9237976	185,7	27'	0,3896834	447,7	0,9237976	185,7
4'	0,3750528	449,4	0,9297192	182,1	56'	0,3896834	447,6	0,9237976	185,7	26'	0,3896834	447,6	0,9237976	185,7
5'	0,3751751	449,3	0,9297193	182,2	55'	0,3896834	447,5	0,9237976	185,7	25'	0,3896834	447,5	0,9237976	185,7
6'	0,3753018	449,3	0,9297194	182,3	54'	0,3896834	447,4	0,9237976	185,7	24'	0,3896834	447,4	0,9237976	185,7
7'	0,3754329	449,3	0,9297195	182,4	53'	0,3896834	447,3	0,9237976	185,7	23'	0,3896834	447,3	0,9237976	185,7
8'	0,3755685	449,3	0,9297196	182,5	52'	0,3896834	447,2	0,9237976	185,7	22'	0,3896834	447,2	0,9237976	185,7
9'	0,3757086	449,3	0,9297197	182,6	51'	0,3896834	447,1	0,9237976	185,7	21'	0,3896834	447,1	0,9237976	185,7
10'	0,3758532	449,3	0,9297198	182,7	50'	0,3896834	447,0	0,9237976	185,7	20'	0,3896834	447,0	0,9237976	185,7
11'	0,3760024	449,3	0,9297199	182,8	49'	0,3896834	446,9	0,9237976	185,7	19'	0,3896834	446,9	0,9237976	185,7
12'	0,3761561	449,3	0,9297200	182,9	48'	0,3896834	446,8	0,9237976	185,7	18'	0,3896834	446,8	0,9237976	185,7
13'	0,3763144	449,3	0,9297201	183,0	47'	0,3896834	446,7	0,9237976	185,7	17'	0,3896834	446,7	0,9237976	185,7
14'	0,3764773	449,3	0,9297202	183,1	46'	0,3896834	446,6	0,9237976	185,7	16'	0,3896834	446,6	0,9237976	185,7
15'	0,3766448	449,3	0,9297203	183,2	45'	0,3896834	446,5	0,9237976	185,7	15'	0,3896834	446,5	0,9237976	185,7
16'	0,3768169	449,3	0,9297204	183,3	44'	0,3896834	446,4	0,9237976	185,7	14'	0,3896834	446,4	0,9237976	185,7
17'	0,3769936	449,3	0,9297205	183,4	43'	0,3896834	446,3	0,9237976	185,7	13'	0,3896834	446,3	0,9237976	185,7
18'	0,3771749	449,3	0,9297206	183,5	42'	0,3896834	446,2	0,9237976	185,7	12'	0,3896834	446,2	0,9237976	185,7
19'	0,3773608	449,3	0,9297207	183,6	41'	0,3896834	446,1	0,9237976	185,7	11'	0,3896834	446,1	0,9237976	185,7
20'	0,3775513	449,3	0,9297208	183,7	40'	0,3896834	446,0	0,9237976	185,7	10'	0,3896834	446,0	0,9237976	185,7
21'	0,3777464	449,3	0,9297209	183,8	39'	0,3896834	445,9	0,9237976	185,7	9'	0,3896834	445,9	0,9237976	185,7
22'	0,3779461	449,3	0,9297210	183,9	38'	0,3896834	445,8	0,9237976	185,7	8'	0,3896834	445,8	0,9237976	185,7
23'	0,3781504	449,3	0,9297211	184,0	37'	0,3896834	445,7	0,9237976	185,7	7'	0,3896834	445,7	0,9237976	185,7
24'	0,3783593	449,3	0,9297212	184,1	36'	0,3896834	445,6	0,9237976	185,7	6'	0,3896834	445,6	0,9237976	185,7
25'	0,3785728	449,3	0,9297213	184,2	35'	0,3896834	445,5	0,9237976	185,7	5'	0,3896834	445,5	0,9237976	185,7
26'	0,3787909	449,3	0,9297214	184,3	34'	0,3896834	445,4	0,9237976	185,7	4'	0,3896834	445,4	0,9237976	185,7
27'	0,3790136	449,3	0,9297215	184,4	33'	0,3896834	445,3	0,9237976	185,7	3'	0,3896834	445,3	0,9237976	185,7
28'	0,3792409	449,3	0,9297216	184,5	32'	0,3896834	445,2	0,9237976	185,7	2'	0,3896834	445,2	0,9237976	185,7
29'	0,3794728	449,3	0,9297217	184,6	31'	0,3896834	445,1	0,9237976	185,7	1'	0,3896834	445,1	0,9237976	185,7
30'	0,3797093	449,3	0,9297218	184,7	30'	0,3896834	445,0	0,9237976	185,7	0'	0,3896834	445,0	0,9237976	185,7
31'	0,3799504	449,3	0,9297219	184,8	29'	0,3896834	444,9	0,9237976	185,7					
32'	0,3801961	449,3	0,9297220	184,9	28'	0,3896834	444,8	0,9237976	185,7					
33'	0,3804464	449,3	0,9297221	185,0	27'	0,3896834	444,7	0,9237976	185,7					
34'	0,3807013	449,3	0,9297222	185,1	26'	0,3896834	444,6	0,9237976	185,7					
35'	0,3809608	449,3	0,9297223	185,2	25'	0,3896834	444,5	0,9237976	185,7					
36'	0,3812249	449,3	0,9297224	185,3	24'	0,3896834	444,4	0,9237976	185,7					
37'	0,3814936	449,3	0,9297225	185,4	23'	0,3896834	444,3	0,9237976	185,7					
38'	0,3817669	449,3	0,9297226	185,5	22'	0,3896834	444,2	0,9237976	185,7					
39'	0,3820448	449,3	0,9297227	185,6	21'	0,3896834	444,1	0,9237976	185,7					
40'	0,3823273	449,3	0,9297228	185,7	20'	0,3896834	444,0	0,9237976	185,7					
41'	0,3826144	449,3	0,9297229	185,8	19'	0,3896834	443,9	0,9237976	185,7					
42'	0,3829061	449,3	0,9297230	185,9	18'	0,3896834	443,8	0,9237976	185,7					
43'	0,3832024	449,3	0,9297231	186,0	17'	0,3896834	443,7	0,9237976	185,7					
44'	0,3835033	449,3	0,9297232	186,1	16'	0,3896834	443,6	0,9237976	185,7					
45'	0,3838088	449,3	0,9297233	186,2	15'	0,3896834	443,5	0,9237976	185,7					
46'	0,3841189	449,3	0,9297234	186,3	14'	0,3896834	443,4	0,9237976	185,7					
47'	0,3844336	449,3	0,9297235	186,4	13'	0,3896834	443,3	0,9237976	185,7					
48'	0,3847529	449,3	0,9297236	186,5	12'	0,3896834	443,2	0,9237976	185,7					
49'	0,3850768	449,3	0,9297237	186,6	11'	0,3896834	443,1	0,9237976	185,7					
50'	0,3854053	449,3	0,9297238	186,7	10'	0,3896834	443,0	0,9237976	185,7					
51'	0,3857384	449,3	0,9297239	186,8	9'	0,3896834	442,9	0,9237976	185,7					
52'	0,3860761	449,3	0,9297240	186,9	8'	0,3896834	442,8	0,9237976	185,7					
53'	0,3864184	449,3	0,9297241	187,0	7'	0,3896834	442,7	0,9237976	185,7					
54'	0,3867653	449,3	0,9297242	187,1	6'	0,3896834	442,6	0,9237976	185,7					
55'	0,3871168	449,3	0,9297243	187,2	5'	0,3896834	442,5	0,9237976	185,7					
56'	0,3874729	449,3	0,9297244	187,3	4'	0,3896834	442,4	0,9237976	185,7					
57'	0,3878336	449,3	0,9297245	187,4	3'	0,3896834	442,3	0,9237976	185,7					
58'	0,3881989	449,3	0,9297246	187,5	2'	0,3896834	442,2	0,9237976	185,7					
59'	0,3885688	449,3	0,9297247	187,6	1'	0,3896834	442,1	0,9237976	185,7					
60'	0,3889433	449,3	0,9297248	187,7	0'	0,3896834	442,0	0,9237976	185,7					

67 deg.

23 deg.

	sin.	diff. 10"	co-sin.	diff. 10"			sin.	diff. 10"	co-sin.	diff. 10"			sin.	diff. 10"	co-sin.	diff. 10"
0'	0.307311	446,3	0.9205049	189,5	60'	30'	0.3078421	444,5	0.9170601	193,5	20'		0.3083731	442,7	0.9132781	197,5
3'	0.307350	446,2	0.9204881	189,6	3'	3'	0.3078815		0.9170001		3'		0.3084125	442,6	0.9132181	197,6
1'	0.307389		0.9204712	189,7	50'	31'	0.3079209		0.9169401		50'		0.3084519	442,5	0.9131581	197,7
3'	0.307428		0.9204543		3'	3'	0.3079603		0.9168801		3'		0.3084913	442,4	0.9130981	197,8
2'	0.307466		0.9204374	189,8	58'	32'	0.3079997		0.9168201		58'		0.3085307	442,3	0.9130381	197,9
		446,1	0.9204204		3'	3'	0.3080391	444,4	0.9167601	193,6	3'		0.3085701	442,2	0.9129781	198,0
3'	0.307500	446,0	0.9204035		57'	33'	0.3080785	444,3	0.9167001	193,7	57'		0.3086095	442,1	0.9129181	198,1
3'	0.307534		0.9203865	189,9	3'	3'	0.3081179		0.9166401	193,8	3'		0.3086489	442,0	0.9128581	198,2
3'	0.307568		0.9203696	190,0	56'	34'	0.3081573		0.9165801	193,9	56'		0.3086883	441,9	0.9127981	198,3
4'	0.307601		0.9203526	190,1	3'	3'	0.3081967		0.9165201	194,0	3'		0.3087277	441,8	0.9127381	198,4
3'	0.307635		0.9203357		55'	35'	0.3082361	444,4	0.9164601	194,1	55'		0.3087671	441,7	0.9126781	198,5
5'	0.307669		0.9203187	190,2	3'	3'	0.3082755		0.9164001	194,2	3'		0.3088065	441,6	0.9126181	198,6
3'	0.307703		0.9203018	190,3	54'	36'	0.3083149	444,3	0.9163401	194,3	54'		0.3088459	441,5	0.9125581	198,7
6'	0.307737		0.9202848		3'	3'	0.3083543		0.9162801	194,4	3'		0.3088853	441,4	0.9124981	198,8
3'	0.307770	445,9	0.9202679		53'	37'	0.3083937	444,2	0.9162201	194,5	53'		0.3089247	441,3	0.9124381	198,9
7'	0.307804	445,8	0.9202509		3'	3'	0.3084331		0.9161601	194,6	3'		0.3089641	441,2	0.9123781	199,0
			0.9202339	190,4	52'	38'	0.3084725		0.9161001	194,7	52'		0.3090035	441,1	0.9123181	199,1
3'	0.307838		0.9202169	190,5	3'	3'	0.3085119		0.9160401	194,8	3'		0.3090429	441,0	0.9122581	199,2
3'	0.307872		0.9201999	190,6	51'	39'	0.3085513	444,1	0.9159801	194,9	51'		0.3090823	440,9	0.9121981	199,3
3'	0.307906	445,7	0.9201829	190,7	3'	3'	0.3085907		0.9159201	195,0	3'		0.3091217	440,8	0.9121381	199,4
3'	0.307940		0.9201659	190,8	50'	40'	0.3086301	444,0	0.9158601	195,1	50'		0.3091611	440,7	0.9120781	199,5
10'	0.307974		0.9201489	190,9	3'	3'	0.3086695		0.9158001	195,2	3'		0.3092005	440,6	0.9120181	199,6
3'	0.308008		0.9201319	191,0	49'	41'	0.3087089	443,9	0.9157401	195,3	49'		0.3092399	440,5	0.9119581	199,7
11'	0.308042		0.9201149		3'	3'	0.3087483		0.9156801	195,4	3'		0.3092793	440,4	0.9118981	199,8
3'	0.308076		0.9200979	191,1	48'	42'	0.3087877	443,8	0.9156201	195,5	48'		0.3093187	440,3	0.9118381	199,9
12'	0.308110		0.9200809	191,2	3'	3'	0.3088271		0.9155601	195,6	3'		0.3093581	440,2	0.9117781	200,0
3'	0.308144	445,5	0.9200639	191,3	47'	43'	0.3088665	443,7	0.9155001	195,7	47'		0.3093975	440,1	0.9117181	200,1
13'	0.308178	445,4	0.9200469	191,4	3'	3'	0.3089059		0.9154401	195,8	3'		0.3094369	440,0	0.9116581	200,2
3'	0.308212		0.9200299	191,5	46'	44'	0.3089453	443,6	0.9153801	195,9	46'		0.3094763	439,9	0.9115981	200,3
3'	0.308246		0.9200129	191,6	3'	3'	0.3089847		0.9153201	196,0	3'		0.3095157	439,8	0.9115381	200,4
14'	0.308280		0.9200000	191,7	45'	45'	0.3090241	443,5	0.9152601	196,1	45'		0.3095551	439,7	0.9114781	200,5
3'	0.308314	445,4	0.9199830	191,8	3'	3'	0.3090635		0.9152001	196,2	3'		0.3095945	439,6	0.9114181	200,6
15'	0.308348		0.9199660	191,9	44'	46'	0.3091029	443,4	0.9151401	196,3	44'		0.3096339	439,5	0.9113581	200,7
3'	0.308382		0.9199490	192,0	3'	3'	0.3091423		0.9150801	196,4	3'		0.3096733	439,4	0.9112981	200,8
16'	0.308416	445,3	0.9199320	192,1	43'	47'	0.3091817	443,3	0.9150201	196,5	43'		0.3097127	439,3	0.9112381	200,9
3'	0.308450		0.9199150	192,2	3'	3'	0.3092211		0.9149601	196,6	3'		0.3097521	439,2	0.9111781	201,0
17'	0.308484		0.9198980	192,3	42'	48'	0.3092605	443,2	0.9149001	196,7	42'		0.3097915	439,1	0.9111181	201,1
3'	0.308518		0.9198810	192,4	3'	3'	0.3093000		0.9148401	196,8	3'		0.3098309	439,0	0.9110581	201,2
18'	0.308552	445,2	0.9198640	192,5	41'	49'	0.3093394	443,1	0.9147801	196,9	41'		0.3098703	438,9	0.9110000	201,3
3'	0.308586	445,1	0.9198470	192,6	3'	3'	0.3093788		0.9147201	197,0	3'		0.3099097	438,8	0.9109400	201,4
19'	0.308620		0.9198300	192,7	40'	50'	0.3094182	443,0	0.9146601	197,1	40'		0.3099491	438,7	0.9108800	201,5
3'	0.308654		0.9198130	192,8	3'	3'	0.3094576		0.9146001	197,2	3'		0.3099885	438,6	0.9108200	201,6
20'	0.308688	445,0	0.9197960	192,9	39'	51'	0.3094970	442,9	0.9145401	197,3	39'		0.3100279	438,5	0.9107600	201,7
3'	0.308722	444,9	0.9197790	193,0	3'	3'	0.3095364		0.9144801	197,4	3'		0.3100673	438,4	0.9107000	201,8
21'	0.308756		0.9197620	193,1	38'	52'	0.3095758	442,8	0.9144201	197,5	38'		0.3101067	438,3	0.9106400	201,9
3'	0.308790		0.9197450	193,2	3'	3'	0.3096152		0.9143601	197,6	3'		0.3101461	438,2	0.9105800	202,0
22'	0.308824	444,8	0.9197280	193,3	37'	53'	0.3096546	442,7	0.9143001	197,7	37'		0.3101855	438,1	0.9105200	202,1
3'	0.308858	444,7	0.9197110	193,4	3'	3'	0.3096940		0.9142401	197,8	3'		0.3102249	438,0	0.9104600	202,2
23'	0.308892		0.9196940	193,5	36'	54'	0.3097334	442,6	0.9141801	197,9	36'		0.3102643	437,9	0.9104000	202,3
3'	0.308926		0.9196770	193,6	3'	3'	0.3097728		0.9141201	198,0	3'		0.3103037	437,8	0.9103400	202,4
24'	0.308960		0.9196600	193,7	35'	55'	0.3098122	442,5	0.9140601	198,1	35'		0.3103431	437,7	0.9102800	202,5
3'	0.308994		0.9196430	193,8	3'	3'	0.3098516		0.9140001	198,2	3'		0.3103825	437,6	0.9102200	202,6
25'	0.309028	444,6	0.9196260	193,9	34'	56'	0.3098910	442,4	0.9139401	198,3	34'		0.3104219	437,5	0.9101600	202,7
3'	0.309062		0.9196090	194,0	3'	3'	0.3099304		0.9138801	198,4	3'		0.3104613	437,4	0.9101000	202,8
26'	0.309096		0.9195920	194,1	33'	57'	0.3099698	442,3	0.9138201	198,5	33'		0.3105007	437,3	0.9100400	202,9
3'	0.309130		0.9195750	194,2	3'	3'	0.3099992		0.9137601	198,6	3'		0.3105401	437,2	0.9100000	203,0
27'	0.309164		0.9195580	194,3	32'	58'	0.3100386	442,2	0.9137001	198,7	32'		0.3105795	437,1	0.9099400	203,1
3'	0.309198		0.9195410	194,4	3'	3'	0.3100780		0.9136401	198,8	3'		0.3106189	437,0	0.9098800	203,2
28'	0.309232	444,5	0.9195240	194,5	31'	59'	0.3101174	442,1	0.9135801	198,9	31'		0.3106583	436,9	0.9098200	203,3
3'	0.309266		0.9195070	194,6	3'	3'	0.3101568		0.9135201	199,0	3'		0.3106977	436,8	0.9097600	203,4
29'	0.309300		0.9194900	194,7	30'	60'	0.3101962	442,0	0.9134601	199,1	30'		0.3107371	436,7	0.9097000	203,5
3'	0.309334		0.9194730	194,8	3'	3'	0.3102356		0.9134001	199,2	3'		0.3107765	436,6	0.9096400	203,6
30'	0.309368	444,6	0.9194560	194,9	29'		0.3102750	441,9	0.9133401	199,3	29'		0.3108159	436,5	0.9095800	203,7
			0.9194390	195,0			0.3103144		0.9132801	199,4			0.3108553	436,4	0.9095200	203,8
			0.9194220	195,1			0.3103538		0.9132201	199,5			0.3108947	436,3	0.9094600	203,9
			0.9194050	195,2			0.3103932		0.9131601	199,6			0.3109341	436,2	0.9094000	204,0
			0.9193880	195,3			0.3104326		0.9131001	199,7			0.3109735	436,1	0.9093400	204,1
			0.9193710	195,4			0.3104720		0.9130401	199,8			0.3110129	436,0	0.9092800	204,2
			0.9193540	195,5			0.3105114		0.9129801	199,9			0.3110523	435,9	0.9092200	204,3
			0.9193370	195,6			0.3105508		0.9129201	200,0			0.3110917	435,8	0.9091600	204,4
			0.9193200	195,7			0.3105902		0.9128601	200,1			0.3111311	435,7	0.9091000	204,5
			0.9193030	195,8			0.3106296		0.9128001	200,2			0.3111705	435,6	0.9090400	204,6
			0.9192860	195,9			0.3106690		0.9127401	200,3			0.3112099	435,5	0.9089800	20

[illegible]

25 deg.

	sin.	diff. 10"	co-sin.	diff. 10"		sin.	diff. 10"	co-sin.	diff. 10"
0'	0,4225183	439,3	0,9063078	205,0	60'	0,4305111	437,5	0,9025883	208,8
30'	0,4227501		0,9062843	205,1	30'	0,4307424		0,9025647	208,9
1'	0,4228819		0,9062613	205,2	59'	0,4309736		0,9025410	209,0
2'	0,4230137		0,9062383		58'	0,4312049		0,9025173	209,1
3'	0,4231455	439,2	0,9062157		57'	0,4314361		0,9024936	209,2
4'	0,4232773		0,9061932		56'	0,4316674	437,4	0,9024699	209,3
5'	0,4234090		0,9061706		55'	0,4318986	437,3	0,9024462	209,4
6'	0,4235407		0,9061481		54'	0,4321298		0,9024225	209,5
7'	0,4236725		0,9061255		53'	0,4323610		0,9023988	209,6
8'	0,4238043	439,1	0,9061030		52'	0,4325922		0,9023751	209,7
9'	0,4239360		0,9060804		51'	0,4328234	437,2	0,9023514	209,8
10'	0,4240677	439,0	0,9060579		50'	0,4330546		0,9023277	209,9
11'	0,4241994		0,9060353		49'	0,4332858	437,1	0,9023040	210,0
12'	0,4243311		0,9060128		48'	0,4335170		0,9022803	210,1
13'	0,4244628		0,9059902		47'	0,4337482	437,0	0,9022566	210,2
14'	0,4245945	438,9	0,9059677		46'	0,4339794		0,9022329	210,3
15'	0,4247262	438,8	0,9059451		45'	0,4342106		0,9022092	210,4
16'	0,4248579		0,9059226		44'	0,4344418	436,9	0,9021855	210,5
17'	0,4249896		0,9058999		43'	0,4346730	436,8	0,9021618	210,6
18'	0,4251213		0,9058774		42'	0,4349042		0,9021381	210,7
19'	0,4252530	438,7	0,9058548		41'	0,4351354	436,7	0,9021144	210,8
20'	0,4253847		0,9058322		40'	0,4353666		0,9020907	210,9
21'	0,4255164		0,9058097		39'	0,4355978	436,6	0,9020670	211,0
22'	0,4256481		0,9057871		38'	0,4358290		0,9020433	211,1
23'	0,4257798	438,6	0,9057646		37'	0,4360602	436,5	0,9020196	211,2
24'	0,4259115	438,5	0,9057420		36'	0,4362914		0,9020000	211,3
25'	0,4260432		0,9057195		35'	0,4365226	436,4	0,9019803	211,4
26'	0,4261749		0,9056969		34'	0,4367538		0,9019607	211,5
27'	0,4263066	438,3	0,9056744		33'	0,4369850	436,3	0,9019410	211,6
28'	0,4264383		0,9056518		32'	0,4372162		0,9019214	211,7
29'	0,4265700	438,2	0,9056293		31'	0,4374474		0,9019017	211,8
30'	0,4267017		0,9056067		30'	0,4376786	436,2	0,9018821	211,9
31'	0,4268334		0,9055842		29'	0,4379098		0,9018624	212,0
32'	0,4269651	438,1	0,9055616		28'	0,4381410	436,1	0,9018428	212,1
33'	0,4270968		0,9055391		27'	0,4383722		0,9018231	212,2
34'	0,4272285	438,0	0,9055165		26'	0,4386034		0,9018035	212,3
35'	0,4273602		0,9054940		25'	0,4388346	436,0	0,9017838	212,4
36'	0,4274919		0,9054714		24'	0,4390658		0,9017642	212,5
37'	0,4276236	437,9	0,9054489		23'	0,4392970		0,9017445	212,6
38'	0,4277553		0,9054263		22'	0,4395282	435,9	0,9017249	212,7
39'	0,4278870	437,8	0,9054038		21'	0,4397594		0,9017052	212,8
40'	0,4280187		0,9053812		20'	0,4399906	435,8	0,9016856	212,9
41'	0,4281504		0,9053587		19'	0,4402218		0,9016659	213,0
42'	0,4282821	437,7	0,9053361		18'	0,4404530		0,9016463	213,1
43'	0,4284138		0,9053136		17'	0,4406842	435,7	0,9016266	213,2
44'	0,4285455		0,9052910		16'	0,4409154		0,9016070	213,3
45'	0,4286772	437,6	0,9052685		15'	0,4411466		0,9015873	213,4
46'	0,4288089		0,9052459		14'	0,4413778	435,6	0,9015677	213,5
47'	0,4289406		0,9052234		13'	0,4416090		0,9015480	213,6
48'	0,4290723	437,5	0,9052008		12'	0,4418402		0,9015284	213,7
49'	0,4292040		0,9051783		11'	0,4420714	435,5	0,9015087	213,8
50'	0,4293357		0,9051557		10'	0,4423026		0,9014891	213,9
51'	0,4294674	437,4	0,9051332		9'	0,4425338		0,9014694	214,0
52'	0,4295991		0,9051106		8'	0,4427650	435,4	0,9014498	214,1
53'	0,4297308		0,9050881		7'	0,4429962		0,9014301	214,2
54'	0,4298625	437,3	0,9050655		6'	0,4432274		0,9014105	214,3
55'	0,4299942		0,9050430		5'	0,4434586	435,3	0,9013908	214,4
56'	0,4301259		0,9050204		4'	0,4436898		0,9013712	214,5
57'	0,4302576	437,2	0,9050000		3'	0,4439210		0,9013515	214,6
58'	0,4303893		0,9049774		2'	0,4441522	435,2	0,9013319	214,7
59'	0,4305210		0,9049549		1'	0,4443834		0,9013122	214,8
60'	0,4306527	437,1	0,9049323		0'	0,4446146		0,9012926	214,9
	co-sin.	diff.	sin.	diff.		co-sin.	diff.	sin.	diff.

26 deg.

	sin.	diff. 10''	co-sin.	diff. 10''		sin.	diff. 10''	co-sin.	diff. 10''
0'	0.43637911	435,8	0.8977946	212,5	50'	0.4461078	435,8	0.8946543	216,3
1'	0.4365015	435,7	0.8977903	212,6	51'	0.4462302	435,7	0.8946504	216,4
2'	0.4366239	435,6	0.8977860	212,7	52'	0.4463526	435,6	0.8946465	216,5
3'	0.4367463	435,5	0.8977817	212,8	53'	0.4464750	435,5	0.8946426	216,6
4'	0.4368687	435,4	0.8977774	212,9	54'	0.4465974	435,4	0.8946387	216,7
5'	0.4369911	435,3	0.8977731	213,0	55'	0.4467198	435,3	0.8946348	216,8
6'	0.4371135	435,2	0.8977688	213,1	56'	0.4468422	435,2	0.8946309	216,9
7'	0.4372359	435,1	0.8977645	213,2	57'	0.4469646	435,1	0.8946270	217,0
8'	0.4373583	435,0	0.8977602	213,3	58'	0.4470870	435,0	0.8946231	217,1
9'	0.4374807	434,9	0.8977559	213,4	59'	0.4472094	434,9	0.8946192	217,2
10'	0.4376031	434,8	0.8977516	213,5	60'	0.4473318	434,8	0.8946153	217,3
11'	0.4377255	434,7	0.8977473	213,6	61'	0.4474542	434,7	0.8946114	217,4
12'	0.4378479	434,6	0.8977430	213,7	62'	0.4475766	434,6	0.8946075	217,5
13'	0.4379703	434,5	0.8977387	213,8	63'	0.4476990	434,5	0.8946036	217,6
14'	0.4380927	434,4	0.8977344	213,9	64'	0.4478214	434,4	0.8945997	217,7
15'	0.4382151	434,3	0.8977301	214,0	65'	0.4479438	434,3	0.8945958	217,8
16'	0.4383375	434,2	0.8977258	214,1	66'	0.4480662	434,2	0.8945919	217,9
17'	0.4384599	434,1	0.8977215	214,2	67'	0.4481886	434,1	0.8945880	218,0
18'	0.4385823	434,0	0.8977172	214,3	68'	0.4483110	434,0	0.8945841	218,1
19'	0.4387047	433,9	0.8977129	214,4	69'	0.4484334	433,9	0.8945802	218,2
20'	0.4388271	433,8	0.8977086	214,5	70'	0.4485558	433,8	0.8945763	218,3
21'	0.4389495	433,7	0.8977043	214,6	71'	0.4486782	433,7	0.8945724	218,4
22'	0.4390719	433,6	0.8977000	214,7	72'	0.4488006	433,6	0.8945685	218,5
23'	0.4391943	433,5	0.8976957	214,8	73'	0.4489230	433,5	0.8945646	218,6
24'	0.4393167	433,4	0.8976914	214,9	74'	0.4490454	433,4	0.8945607	218,7
25'	0.4394391	433,3	0.8976871	215,0	75'	0.4491678	433,3	0.8945568	218,8
26'	0.4395615	433,2	0.8976828	215,1	76'	0.4492902	433,2	0.8945529	218,9
27'	0.4396839	433,1	0.8976785	215,2	77'	0.4494126	433,1	0.8945490	219,0
28'	0.4398063	433,0	0.8976742	215,3	78'	0.4495350	433,0	0.8945451	219,1
29'	0.4399287	432,9	0.8976699	215,4	79'	0.4496574	432,9	0.8945412	219,2
30'	0.4400511	432,8	0.8976656	215,5	80'	0.4497798	432,8	0.8945373	219,3
31'	0.4401735	432,7	0.8976613	215,6	81'	0.4499022	432,7	0.8945334	219,4
32'	0.4402959	432,6	0.8976570	215,7	82'	0.4500246	432,6	0.8945295	219,5
33'	0.4404183	432,5	0.8976527	215,8	83'	0.4501470	432,5	0.8945256	219,6
34'	0.4405407	432,4	0.8976484	215,9	84'	0.4502694	432,4	0.8945217	219,7
35'	0.4406631	432,3	0.8976441	216,0	85'	0.4503918	432,3	0.8945178	219,8
36'	0.4407855	432,2	0.8976398	216,1	86'	0.4505142	432,2	0.8945139	219,9
37'	0.4409079	432,1	0.8976355	216,2	87'	0.4506366	432,1	0.8945100	220,0
38'	0.4410303	432,0	0.8976312	216,3	88'	0.4507590	432,0	0.8945061	220,1
39'	0.4411527	431,9	0.8976269	216,4	89'	0.4508814	431,9	0.8945022	220,2
40'	0.4412751	431,8	0.8976226	216,5	90'	0.4510038	431,8	0.8944983	220,3
41'	0.4413975	431,7	0.8976183	216,6					
42'	0.4415199	431,6	0.8976140	216,7					
43'	0.4416423	431,5	0.8976097	216,8					
44'	0.4417647	431,4	0.8976054	216,9					
45'	0.4418871	431,3	0.8976011	217,0					
46'	0.4420095	431,2	0.8975968	217,1					
47'	0.4421319	431,1	0.8975925	217,2					
48'	0.4422543	431,0	0.8975882	217,3					
49'	0.4423767	430,9	0.8975839	217,4					
50'	0.4424991	430,8	0.8975796	217,5					
51'	0.4426215	430,7	0.8975753	217,6					
52'	0.4427439	430,6	0.8975710	217,7					
53'	0.4428663	430,5	0.8975667	217,8					
54'	0.4429887	430,4	0.8975624	217,9					
55'	0.4431111	430,3	0.8975581	218,0					
56'	0.4432335	430,2	0.8975538	218,1					
57'	0.4433559	430,1	0.8975495	218,2					
58'	0.4434783	430,0	0.8975452	218,3					
59'	0.4436007	429,9	0.8975409	218,4					
60'	0.4437231	429,8	0.8975366	218,5					
61'	0.4438455	429,7	0.8975323	218,6					
62'	0.4439679	429,6	0.8975280	218,7					
63'	0.4440903	429,5	0.8975237	218,8					
64'	0.4442127	429,4	0.8975194	218,9					
65'	0.4443351	429,3	0.8975151	219,0					
66'	0.4444575	429,2	0.8975108	219,1					
67'	0.4445799	429,1	0.8975065	219,2					
68'	0.4447023	429,0	0.8975022	219,3					
69'	0.4448247	428,9	0.8974979	219,4					
70'	0.4449471	428,8	0.8974936	219,5					
71'	0.4450695	428,7	0.8974893	219,6					
72'	0.4451919	428,6	0.8974850	219,7					
73'	0.4453143	428,5	0.8974807	219,8					
74'	0.4454367	428,4	0.8974764	219,9					
75'	0.4455591	428,3	0.8974721	220,0					
76'	0.4456815	428,2	0.8974678	220,1					
77'	0.4458039	428,1	0.8974635	220,2					
78'	0.4459263	428,0	0.8974592	220,3					
79'	0.4460487	427,9	0.8974549	220,4					
80'	0.4461711	427,8	0.8974506	220,5					
81'	0.4462935	427,7	0.8974463	220,6					
82'	0.4464159	427,6	0.8974420	220,7					
83'	0.4465383	427,5	0.8974377	220,8					
84'	0.4466607	427,4	0.8974334	220,9					
85'	0.4467831	427,3	0.8974291	221,0					
86'	0.4469055	427,2	0.8974248	221,1					
87'	0.4470279	427,1	0.8974205	221,2					
88'	0.4471503	427,0	0.8974162	221,3					
89'	0.4472727	426,9	0.8974119	221,4					
90'	0.4473951	426,8	0.8974076	221,5					
91'	0.4475175	426,7	0.8974033	221,6					
92'	0.4476399	426,6	0.8973990	221,7					
93'	0.4477623	426,5	0.8973947	221,8					
94'	0.4478847	426,4	0.8973904	221,9					
95'	0.4480071	426,3	0.8973861	222,0					
96'	0.4481295	426,2	0.8973818	222,1					
97'	0.4482519	426,1	0.8973775	222,2					
98'	0.4483743	426,0	0.8973732	222,3					
99'	0.4484967	425,9	0.8973689	222,4					
100'	0.4486191	425,8	0.8973646	222,5					

63 deg.

27 deg.

	sin.	diff. 10"	co-sin.	diff. 10"			sin.	diff. 10"	co-sin.	diff. 10"			sin.	diff. 10"	co-sin.	diff. 10"
0'	0,4539205	432,0	0,8910055	220,2	60'	30'	0,4617485	430,0	0,8870108	224,0	30'	0,4617485	430,0	0,8870108	224,0	30'
1'	0,4541201	431,9	0,8909404	220,3	31'	31'	0,4618776	429,9	0,8869436	224,1	29'	0,4618776	429,9	0,8869436	224,1	29'
2'	0,4543197	431,8	0,8908754	220,3	32'	32'	0,4620066	429,8	0,8868684	224,2	28'	0,4620066	429,8	0,8868684	224,2	28'
3'	0,4545193	431,7	0,8908103	220,4	33'	33'	0,4621356	429,7	0,8867932	224,3	27'	0,4621356	429,7	0,8867932	224,3	27'
4'	0,4547189	431,6	0,8907452	220,5	34'	34'	0,4622646	429,6	0,8867180	224,4	26'	0,4622646	429,6	0,8867180	224,4	26'
5'	0,4549185	431,5	0,8906801	220,5	35'	35'	0,4623936	429,5	0,8866428	224,5	25'	0,4623936	429,5	0,8866428	224,5	25'
6'	0,4551181	431,4	0,8906150	220,6	36'	36'	0,4625226	429,4	0,8865676	224,6	24'	0,4625226	429,4	0,8865676	224,6	24'
7'	0,4553177	431,3	0,8905499	220,7	37'	37'	0,4626516	429,3	0,8864924	224,7	23'	0,4626516	429,3	0,8864924	224,7	23'
8'	0,4555173	431,2	0,8904848	220,8	38'	38'	0,4627806	429,2	0,8864172	224,8	22'	0,4627806	429,2	0,8864172	224,8	22'
9'	0,4557169	431,1	0,8904197	220,9	39'	39'	0,4629096	429,1	0,8863420	224,9	21'	0,4629096	429,1	0,8863420	224,9	21'
10'	0,4559165	431,0	0,8903546	221,0	40'	40'	0,4630386	429,0	0,8862668	225,0	20'	0,4630386	429,0	0,8862668	225,0	20'
11'	0,4561161	430,9	0,8902895	221,1	41'	41'	0,4631676	428,9	0,8861916	225,1	19'	0,4631676	428,9	0,8861916	225,1	19'
12'	0,4563157	430,8	0,8902244	221,2	42'	42'	0,4632966	428,8	0,8861164	225,2	18'	0,4632966	428,8	0,8861164	225,2	18'
13'	0,4565153	430,7	0,8901593	221,3	43'	43'	0,4634256	428,7	0,8860412	225,3	17'	0,4634256	428,7	0,8860412	225,3	17'
14'	0,4567149	430,6	0,8900942	221,4	44'	44'	0,4635546	428,6	0,8859660	225,4	16'	0,4635546	428,6	0,8859660	225,4	16'
15'	0,4569145	430,5	0,8900291	221,5	45'	45'	0,4636836	428,5	0,8858908	225,5	15'	0,4636836	428,5	0,8858908	225,5	15'
16'	0,4571141	430,4	0,8899640	221,6	46'	46'	0,4638126	428,4	0,8858156	225,6	14'	0,4638126	428,4	0,8858156	225,6	14'
17'	0,4573137	430,3	0,8898989	221,7	47'	47'	0,4639416	428,3	0,8857404	225,7	13'	0,4639416	428,3	0,8857404	225,7	13'
18'	0,4575133	430,2	0,8898338	221,8	48'	48'	0,4640706	428,2	0,8856652	225,8	12'	0,4640706	428,2	0,8856652	225,8	12'
19'	0,4577129	430,1	0,8897687	221,9	49'	49'	0,4641996	428,1	0,8855900	225,9	11'	0,4641996	428,1	0,8855900	225,9	11'
20'	0,4579125	430,0	0,8897036	222,0	50'	50'	0,4643286	428,0	0,8855148	226,0	10'	0,4643286	428,0	0,8855148	226,0	10'
21'	0,4581121	429,9	0,8896385	222,1	51'	51'	0,4644576	427,9	0,8854396	226,1	9'	0,4644576	427,9	0,8854396	226,1	9'
22'	0,4583117	429,8	0,8895734	222,2	52'	52'	0,4645866	427,8	0,8853644	226,2	8'	0,4645866	427,8	0,8853644	226,2	8'
23'	0,4585113	429,7	0,8895083	222,3	53'	53'	0,4647156	427,7	0,8852892	226,3	7'	0,4647156	427,7	0,8852892	226,3	7'
24'	0,4587109	429,6	0,8894432	222,4	54'	54'	0,4648446	427,6	0,8852140	226,4	6'	0,4648446	427,6	0,8852140	226,4	6'
25'	0,4589105	429,5	0,8893781	222,5	55'	55'	0,4649736	427,5	0,8851388	226,5	5'	0,4649736	427,5	0,8851388	226,5	5'
26'	0,4591101	429,4	0,8893130	222,6	56'	56'	0,4651026	427,4	0,8850636	226,6	4'	0,4651026	427,4	0,8850636	226,6	4'
27'	0,4593097	429,3	0,8892479	222,7	57'	57'	0,4652316	427,3	0,8849884	226,7	3'	0,4652316	427,3	0,8849884	226,7	3'
28'	0,4595093	429,2	0,8891828	222,8	58'	58'	0,4653606	427,2	0,8849132	226,8	2'	0,4653606	427,2	0,8849132	226,8	2'
29'	0,4597089	429,1	0,8891177	222,9	59'	59'	0,4654896	427,1	0,8848380	226,9	1'	0,4654896	427,1	0,8848380	226,9	1'
30'	0,4599085	429,0	0,8890526	223,0	60'	60'	0,4656186	427,0	0,8847628	227,0	0'	0,4656186	427,0	0,8847628	227,0	0'
31'	0,4601081	428,9	0,8889875	223,1			0,4657476		0,8846876							
32'	0,4603077	428,8	0,8889224	223,2			0,4658766		0,8846124							
33'	0,4605073	428,7	0,8888573	223,3			0,4660056		0,8845372							
34'	0,4607069	428,6	0,8887922	223,4			0,4661346		0,8844620							
35'	0,4609065	428,5	0,8887271	223,5			0,4662636		0,8843868							
36'	0,4611061	428,4	0,8886620	223,6			0,4663926		0,8843116							
37'	0,4613057	428,3	0,8885969	223,7			0,4665216		0,8842364							
38'	0,4615053	428,2	0,8885318	223,8			0,4666506		0,8841612							
39'	0,4617049	428,1	0,8884667	223,9			0,4667796		0,8840860							
40'	0,4619045	428,0	0,8884016	224,0			0,4669086		0,8840108							
41'	0,4621041	427,9	0,8883365	224,1			0,4670376		0,8839356							
42'	0,4623037	427,8	0,8882714	224,2			0,4671666		0,8838604							
43'	0,4625033	427,7	0,8882063	224,3			0,4672956		0,8837852							
44'	0,4627029	427,6	0,8881412	224,4			0,4674246		0,8837100							
45'	0,4629025	427,5	0,8880761	224,5			0,4675536		0,8836348							
46'	0,4631021	427,4	0,8880110	224,6			0,4676826		0,8835596							
47'	0,4633017	427,3	0,8879459	224,7			0,4678116		0,8834844							
48'	0,4635013	427,2	0,8878808	224,8			0,4679406		0,8834092							
49'	0,4637009	427,1	0,8878157	224,9			0,4680696		0,8833340							
50'	0,4639005	427,0	0,8877506	225,0			0,4681986		0,8832588							
51'	0,4641001	426,9	0,8876855	225,1			0,4683276		0,8831836							
52'	0,4643000	426,8	0,8876204	225,2			0,4684566		0,8831084							
53'	0,4645000	426,7	0,8875553	225,3			0,4685856		0,8830332							
54'	0,4647000	426,6	0,8874902	225,4			0,4687146		0,8829580							
55'	0,4649000	426,5	0,8874251	225,5			0,4688436		0,8828828							
56'	0,4651000	426,4	0,8873600	225,6			0,4689726		0,8828076							
57'	0,4653000	426,3	0,8872949	225,7			0,4691016		0,8827324							
58'	0,4655000	426,2	0,8872298	225,8			0,4692306		0,8826572							
59'	0,4657000	426,1	0,8871647	225,9			0,4693596		0,8825820							
60'	0,4659000	426,0	0,8871000	226,0			0,4694886		0,8825068							
61'	0,4661000	425,9	0,8870349	226,1			0,4696176		0,8824316							
62'	0,4663000	425,8	0,8869698	226,2			0,4697466		0,8823564							
63'	0,4665000	425,7	0,8869047	226,3			0,4698756		0,8822812							
64'	0,4667000	425,6	0,8868396	226,4			0,4699999		0,8822060							
65'	0,4669000	425,5	0,8867745	226,5			0,4701299		0,8821308							
66'	0,4671000	425,4	0,8867094	226,6			0,4702599		0,8820556							
67'	0,4673000	425,3	0,8866443	226,7			0,4703899		0,8819804							
68'	0,4675000	425,2	0,8865792	226,8			0,4705199		0,8819052							
69'	0,4677000	425,1	0,8865141	226,9			0,4706499		0,8818300							
70'	0,4679000	425,0	0,8864490	227,0			0,4707799		0,8817548							
71'	0,4681000	424,9	0,8863839	227,1			0,4709099		0,8816796							
72'	0,4683000	424,8	0,8863188	227,2			0,4710399		0,8816044							
73'	0,4685000	424,7	0,8862537	227,3			0,4711699		0,8815292							
74'	0,4687000	424,6	0,8861886	227,4			0,4712999		0,8814540							
75'	0,4689000	424,5	0,8861235	227,5			0,4714299		0,8813788							
76'	0,4691000	424,4	0,8860584	227,6			0,4715599		0,8813036							
77'	0,4693000	424,3	0,8859933	227,7			0,4716899		0,8812284							
78'	0,4695000	424,2	0,8859282	227,8			0,4718199		0,8811532							
79'	0,4697000	424,1	0,8858631	227,9			0,4719499		0,8810780							
80'	0,4699000	424,0	0,8857980	228,0			0,4720799		0,8810028							
81'	0,4701000	423,9</														

	sin.	diff. 10''	co-sin.	diff. 10''		sin.	diff. 10''	co-sin.	diff. 10''
0'	0,4694715		0,8849475		60'	0,4771588		0,8783171	
1'	0,4695000	428,0	0,8848753	227,7	30'	0,4772866	428,0	0,8782477	221,3
2'	0,4695284		0,8848110		50'	0,4774144		0,8781783	221,5
3'	0,4695568		0,8847427	227,8	30'	0,4775422	428,0	0,8781089	221,6
4'	0,4695852	427,8	0,8846743	227,9	50'	0,4776700	428,0	0,8780394	221,7
5'	0,4696136		0,8846059		30'	0,4777978		0,8779699	221,8
6'	0,4696419		0,8845375		50'	0,4779256		0,8778904	221,9
7'	0,4696703		0,8844691	228,1	30'	0,4780533		0,8778108	222,0
8'	0,4696986		0,8844007	228,2	50'	0,4781810		0,8777313	222,1
9'	0,4697270		0,8843322	228,3	30'	0,4783087	428,7	0,8776518	222,2
10'	0,4697553		0,8842638		50'	0,4784364		0,8775722	222,3
11'	0,4697836	427,7	0,8841953	228,3	30'	0,4785641		0,8774926	222,4
12'	0,4698119		0,8841268		50'	0,4786918		0,8774130	222,5
13'	0,4698402		0,8840583	228,4	30'	0,4788195		0,8773333	222,6
14'	0,4698685	427,6	0,8839898	228,5	50'	0,4789472		0,8772537	222,7
15'	0,4698968		0,8839213		30'	0,4790749		0,8771740	222,8
16'	0,4699251		0,8838527	228,6	50'	0,4792026	428,6	0,8770943	222,9
17'	0,4699534		0,8837841	228,7	30'	0,4793302		0,8770146	223,0
18'	0,4699817		0,8837155	228,8	50'	0,4794579	428,3	0,8769349	223,1
19'	0,4700099		0,8836469		30'	0,4795855		0,8768552	223,2
20'	0,4700382	427,3	0,8835782	228,9	50'	0,4797131		0,8767755	223,3
21'	0,4700665		0,8835096	229,0	30'	0,4798407		0,8766958	223,4
22'	0,4700948		0,8834409	229,1	50'	0,4799683		0,8766161	223,5
23'	0,4701231		0,8833722	229,2	30'	0,4800959		0,8765364	223,6
24'	0,4701514	427,2	0,8833035	229,3	50'	0,4802235	428,2	0,8764567	223,7
25'	0,4701797		0,8832348		30'	0,4803511		0,8763769	223,8
26'	0,4702080		0,8831660	229,3	50'	0,4804787		0,8762972	223,9
27'	0,4702363		0,8830972	229,4	30'	0,4806063		0,8762175	224,0
28'	0,4702646		0,8830284	229,5	50'	0,4807339		0,8761378	224,1
29'	0,4702929	427,1	0,8829596	229,6	30'	0,4808615	428,1	0,8760581	224,2
30'	0,4703212		0,8828908		50'	0,4809891		0,8759784	224,3
31'	0,4703495		0,8828220	229,6	30'	0,4811167		0,8758987	224,4
32'	0,4703778		0,8827532	229,7	50'	0,4812443		0,8758189	224,5
33'	0,4704061	426,9	0,8826844	229,8	30'	0,4813719		0,8757392	224,6
34'	0,4704344		0,8826156		50'	0,4814995	424,9	0,8756595	224,7
35'	0,4704627		0,8825468	229,8	30'	0,4816271		0,8755798	224,8
36'	0,4704910		0,8824780	229,9	50'	0,4817547		0,8754999	224,9
37'	0,4705193		0,8824092	229,9	30'	0,4818823		0,8754202	225,0
38'	0,4705476	426,8	0,8823404	230,0	50'	0,4820098	424,7	0,8753405	225,1
39'	0,4705759		0,8822716		30'	0,4821374		0,8752608	225,2
40'	0,4706042		0,8822028	230,1	50'	0,4822650		0,8751811	225,3
41'	0,4706325	426,7	0,8821340	230,2	30'	0,4823926		0,8751014	225,4
42'	0,4706608		0,8820652		50'	0,4825202		0,8750217	225,5
43'	0,4706891		0,8819964	230,3	30'	0,4826478		0,8749420	225,6
44'	0,4707174		0,8819276	230,4	50'	0,4827754	424,6	0,8748623	225,7
45'	0,4707457		0,8818588	230,5	30'	0,4829030		0,8747826	225,8
46'	0,4707740		0,8817899	230,6	50'	0,4830306		0,8747029	225,9
47'	0,4708023	426,5	0,8817211	230,7	30'	0,4831582		0,8746232	226,0
48'	0,4708306		0,8816523		50'	0,4832858	424,5	0,8745435	226,1
49'	0,4708589		0,8815835	230,8	30'	0,4834134		0,8744638	226,2
50'	0,4708872		0,8815147	230,9	50'	0,4835410		0,8743841	226,3
51'	0,4709155	426,4	0,8814459	231,0	30'	0,4836686		0,8743044	226,4
52'	0,4709438		0,8813771		50'	0,4837962		0,8742247	226,5
53'	0,4709721		0,8813083	231,1	30'	0,4839238		0,8741450	226,6
54'	0,4710004		0,8812395	231,2	50'	0,4840514	424,4	0,8740653	226,7
55'	0,4710287		0,8811707		30'	0,4841790		0,8739856	226,8
56'	0,4710570		0,8811019	231,3	50'	0,4843066		0,8739059	226,9
57'	0,4710853	426,3	0,8810331	231,4	30'	0,4844342		0,8738262	227,0
58'	0,4711136		0,8809643		50'	0,4845618	424,3	0,8737465	227,1
59'	0,4711419		0,8808955	231,5	30'	0,4846894		0,8736668	227,2
60'	0,4711702		0,8808267		50'	0,4848170	424,2	0,8735871	227,3
61'	0,4711985		0,8807579	231,6	30'	0,4849446		0,8735074	227,4
62'	0,4712268		0,8806891		50'	0,4850722		0,8734277	227,5
63'	0,4712551	426,2	0,8806203	231,7	30'	0,4851998		0,8733480	227,6
64'	0,4712834		0,8805515		50'	0,4853274	424,1	0,8732683	227,7
65'	0,4713117		0,8804827	231,8	30'	0,4854550		0,8731886	227,8
66'	0,4713400		0,8804139		50'	0,4855826	424,0	0,8731089	227,9
67'	0,4713683		0,8803451	231,9	30'	0,4857102		0,8730292	228,0
68'	0,4713966		0,8802763		50'	0,4858378		0,8729495	228,1
69'	0,4714249	426,1	0,8802075	232,0	30'	0,4859654		0,8728698	228,2
70'	0,4714532		0,8801387		50'	0,4860930		0,8727901	228,3
71'	0,4714815		0,8800699	232,1	30'	0,4862206		0,8727104	228,4
72'	0,4715098		0,8799999		50'	0,4863482	424,0	0,8726307	228,5
73'	0,4715381		0,8799301	232,2	30'	0,4864758		0,8725510	228,6
74'	0,4715664		0,8798603		50'	0,4866034		0,8724713	228,7
75'	0,4715947	426,0	0,8797905	232,3	30'	0,4867310		0,8723916	228,8
76'	0,4716230		0,8797207		50'	0,4868586	424,0	0,8723119	228,9
77'	0,4716513		0,8796509		30'	0,4869862		0,8722322	229,0
78'	0,4716796		0,8795811	232,4	50'	0,4871138		0,8721525	229,1
79'	0,4717079		0,8795113		30'	0,4872414		0,8720728	229,2
80'	0,4717362	425,9	0,8794415	232,5	50'	0,4873690		0,8719931	229,3
81'	0,4717645		0,8793717		30'	0,4874966		0,8719134	229,4
82'	0,4717928		0,8793019	232,6	50'	0,4876242		0,8718337	229,5
83'	0,4718211		0,8792321		30'	0,4877518		0,8717540	229,6
84'	0,4718494	425,8	0,8791623	232,7	50'	0,4878794		0,8716743	229,7
85'	0,4718777		0,8790925		30'	0,4880070		0,8715946	229,8
86'	0,4719060		0,8790227	232,8	50'	0,4881346		0,8715149	229,9
87'	0,4719343		0,8789529		30'	0,4882622		0,8714352	230,0
88'	0,4719626	425,7	0,8788831	232,9	50'	0,4883898		0,8713555	230,1
89'	0,4719909		0,8788133		30'	0,4885174		0,8712758	230,2
90'	0,4720192		0,8787435	233,0	50'	0,4886450		0,8711961	230,3
91'	0,4720475		0,8786737		30'	0,4887726		0,8711164	230,4
92'	0,4720758	425,6	0,8786039	233,1	50'	0,4889002		0,8710367	230,5
93'	0,4721041		0,8785341		30'	0,4890278		0,8709570	230,6
94'	0,4721324		0,8784643	233,2	50'	0,4891554		0,8708773	230,7
95'	0,4721607		0,8783945		30'	0,4892830		0,8707976	230,8
96'	0,4721890	425,5	0,8783247	233,3	50'	0,4894106		0,8707179	230,9
97'	0,4722173		0,8782549		30'	0,4895382		0,8706382	231,0
98'	0,4722456		0,8781851	233,4	50'	0,4896658		0,8705585	231,1
99'	0,4722739		0,8781153		30'	0,4897934		0,8704788	231,2
100'	0,4723022	425,4	0,8780455	233,5	50'	0,4899210		0,8703991	231,3
101'	0,4723305		0,8779757		30'	0,4900486		0,8703194	231,4
102'	0,4723588		0,8779059	233,6	50'	0,4901762		0,8702397	231,5
103'	0,4723871	425,3	0,8778361	233,7	30'	0,4903038		0,8701600	231,6
104'	0,4724154		0,8777663		50'	0,4904314		0,8700803	231,7
105'	0,4724437		0,8776965	233,8	30'	0,4905590		0,8700006	231,8
106'	0,4724720		0,8776267		50'	0,4906866	424,0	0,8699209	231,9
107'	0,4725003		0,8775569		30'	0,4908142		0,8698412	232,0
108'	0,4725286	425,2	0,8774871	233,9	50'	0,4909418		0,8697615	232,1
109'	0,4725569		0,8774173		30'	0,4910694		0,8696818	232,2
110'	0,4725852		0,8773475	234,0	50'	0,4911970		0,8696021	232,3
111'	0,4726135		0,8772777		30'	0,4913246		0,8695224	232,4
112'	0,4726418	425,1	0,8772079	234,1	50'	0,4914522		0,8694427	232,5
113'	0,4726701		0,8771381		30'	0,4915798		0,8693630	232,6
114'	0,4726984		0,8770683	234,2	50'	0,4917074		0,8692833	232,7
115'	0,4727267		0,8769985		30'	0,4918350		0,8692036	232,8
116'	0,4727550	425,0	0,8769287	234,3	50'	0,4919626		0,8691239	232,9
117'	0,4727833		0,8768589		30'	0,492			

29 deg.

	sin.	diff. 10''	co-sin.	diff. 10''		sin.	diff. 10''	co-sin.	diff. 10''
0'	0,4848066	423,0	0,8746197	235,2	60'	0,4924235	421,8	0,8703537	238,8
30'	0,4849265		0,8745421		30'	0,4925502		0,8702841	238,9
1'	0,4850464		0,8744645		59'	0,4926767		0,8702124	239,0
35'	0,4851912	423,0	0,8744081	235,3	35'	0,4928033		0,8701407	239,1
2'	0,4853184	423,0	0,8743375	235,4	30'	0,4929298		0,8700690	239,2
36'	0,4854456		0,8742659		35'	0,4930564		0,8699973	239,3
3'	0,4855727		0,8741963		57'	0,4931829	421,7	0,8699256	239,4
36'	0,4856999		0,8741257		35'	0,4933194		0,8698539	239,5
4'	0,4858270	423,7	0,8740550	235,7	56'	0,4934459		0,8697821	239,6
36'	0,4859541		0,8739843		35'	0,4935724		0,8697103	239,7
5'	0,4860812		0,8739135		55'	0,4936989		0,8696385	239,8
36'	0,4862083	423,6	0,8738429	235,8	35'	0,4938254	421,5	0,8695667	239,9
6'	0,4863354	423,5	0,8737722	235,9	54'	0,4939519		0,8694949	240,0
36'	0,4864625		0,8737020		35'	0,4940784		0,8694231	240,1
7'	0,4865895		0,8736307		53'	0,4942048		0,8693512	240,2
36'	0,4867166		0,8735599		35'	0,4943312	421,4	0,8692793	240,3
8'	0,4868436		0,8734891		52'	0,4944576	421,3	0,8692074	240,4
36'	0,4869707	423,4	0,8734183	236,1	35'	0,4945840		0,8691355	240,5
9'	0,4870977	423,3	0,8733475	236,2	51'	0,4947105		0,8690635	240,6
36'	0,4872247		0,8732767		35'	0,4948369		0,8689916	240,7
10'	0,4873517		0,8732058		50'	0,4949632	421,2	0,8689195	240,8
36'	0,4874787		0,8731349		35'	0,4950896		0,8688475	240,9
11'	0,4876057		0,8730640		49'	0,4952160		0,8687755	241,0
36'	0,4877327	423,2	0,8729931	236,6	35'	0,4953424	421,1	0,8687035	241,1
12'	0,4878597	423,2	0,8729221	236,7	48'	0,4954687	421,0	0,8686315	241,2
36'	0,4879867	423,1	0,8728511	236,8	35'	0,4955950		0,8685594	241,3
13'	0,4881136	423,0	0,8727801	236,9	47'	0,4957213		0,8684873	241,4
36'	0,4882405		0,8727091		35'	0,4958476		0,8684152	241,5
14'	0,4883674		0,8726381		46'	0,4959739		0,8683431	241,6
36'	0,4884943		0,8725671		35'	0,4960999	420,9	0,8682710	241,7
15'	0,4886212		0,8724960		45'	0,4962261	420,8	0,8681988	241,8
36'	0,4887481	422,9	0,8724249	237,0	35'	0,4963523		0,8681266	241,9
16'	0,4888750	422,8	0,8723538	237,1	44'	0,4964785		0,8680544	242,0
36'	0,4890019		0,8722827		35'	0,4966047		0,8679822	242,1
17'	0,4891288		0,8722116		43'	0,4967309		0,8679100	242,2
36'	0,4892557		0,8721405		35'	0,4968571		0,8678378	242,3
18'	0,4893825		0,8720693		42'	0,4969832	420,7	0,8677655	242,4
36'	0,4895093		0,8719981		35'	0,4971094	420,6	0,8676932	242,5
19'	0,4896361		0,8719269		41'	0,4972355	420,5	0,8676209	242,6
36'	0,4897629	422,7	0,8718557	237,5	35'	0,4973616		0,8675486	242,7
20'	0,4898897		0,8717844		40'	0,4974877		0,8674762	242,8
36'	0,4900165	422,6	0,8717132	237,6	35'	0,4976138		0,8674038	242,9
21'	0,4901433	422,5	0,8716419	237,7	51'	0,4977399		0,8673314	243,0
36'	0,4902701		0,8715706		35'	0,4978659	420,4	0,8672590	243,1
22'	0,4903968		0,8714993		38'	0,4979919	420,3	0,8671866	243,2
36'	0,4905236	422,4	0,8714280	237,9	35'	0,4981179		0,8671142	243,3
36'	0,4906503	422,3	0,8713566	238,0	53'	0,4982439		0,8670417	243,4
36'	0,4907771		0,8712852		35'	0,4983699		0,8669692	243,5
24'	0,4909038		0,8712138		54'	0,4984959		0,8668967	243,6
36'	0,4910305		0,8711424		35'	0,4986219		0,8668242	243,7
25'	0,4911572		0,8710710		35'	0,4987479	420,2	0,8667517	243,8
36'	0,4912839	422,2	0,8710000	238,2	35'	0,4988739		0,8666792	243,9
26'	0,4914105	422,1	0,8709288	238,3	34'	0,4989999		0,8666066	244,0
36'	0,4915371	422,1	0,8708576	238,4	35'	0,4991259	420,1	0,8665340	244,1
27'	0,4916638	422,0	0,8707861	238,5	33'	0,4992519	420,0	0,8664614	244,2
36'	0,4917905	422,0	0,8707146	238,6	35'	0,4993779		0,8663888	244,3
28'	0,4919171		0,8706430		30'	0,4995039		0,8663161	244,4
36'	0,4920438	422,1	0,8705715	238,7	35'	0,4996299		0,8662435	244,5
29'	0,4921704	422,0	0,8704999	238,8	31'	0,4997559	419,9	0,8661708	244,6
36'	0,4922970	421,9	0,8704283	238,9	35'	0,4998819	419,8	0,8660981	244,7
30'	0,4924236		0,8703567		30'	0,5000080		0,8660254	244,8
	co-sin.	10'' diff.	sin.	10'' diff.		co-sin.	10'' diff.	sin.	10'' diff.

60 deg.

	sin.	diff. 10"	co-sin.	diff. 10"			sin.	diff. 10"	co-sin.	diff. 10"	
0'	0,5000000		0,8660254		60'	0,5075384	417,7	0,8616292	246,2	35'	
35'	0,5001250	419,8	0,8659527	246,5	35'	0,5076637		0,8615534		35'	
1'	0,5002519		0,8658799	246,7	35'	0,5077890		0,8614785		35'	
35'	0,5003778		0,8658071		35'	0,5079143	417,6	0,8614036	246,3	35'	
2'	0,5005037	419,7	0,8657343	246,8	35'	0,5080396	417,5	0,8613287	246,4	35'	
35'	0,5006297		0,8656615		35'	0,5081648		0,8612538		35'	
3'	0,5007556		0,8655887	246,8	35'	0,5082901		0,8611789		35'	
35'	0,5008815		0,8655159	246,9	35'	0,5084153	417,4	0,8611040	246,5	35'	
4'	0,5010073	419,6	0,8654430	247,0	35'	0,5085406	417,3	0,8610291	246,6	35'	
35'	0,5011332		0,8653701		35'	0,5086658		0,8609542		35'	
5'	0,5012591		0,8652972	247,1	35'	0,5087910		0,8608793		35'	
35'	0,5013849	419,4	0,8652243	247,2	35'	0,5089162		0,8608044		35'	
6'	0,5015107	419,3	0,8651514	247,3	35'	0,5090414		0,8607295		35'	
35'	0,5016366		0,8650785		35'	0,5091666	417,2	0,8606546	247,0	35'	
7'	0,5017624		0,8650055	247,3	35'	0,5092918		0,8605797		35'	
35'	0,5018882		0,8649325	247,4	35'	0,5094170		0,8605048		35'	
8'	0,5020140	419,2	0,8648595	247,5	35'	0,5095421		0,8604299		35'	
35'	0,5021398		0,8647864		35'	0,5096673	417,1	0,8603550	247,2	35'	
9'	0,5022655		0,8647134	247,6	35'	0,5097924		0,8602801		35'	
35'	0,5023912		0,8646404	247,7	35'	0,5099175	417,0	0,8602052	247,3	35'	
10'	0,5025170		0,8645673	247,8	35'	0,5100426		0,8601303		35'	
35'	0,5026428	419,1	0,8644942	247,9	35'	0,5101677	416,9	0,8600554	247,4	35'	
11'	0,5027685	419,0	0,8644211	248,0	35'	0,5102928	416,8	0,8599805	247,5	35'	
35'	0,5028942		0,8643480	248,1	35'	0,5104179		0,8599056		35'	
12'	0,5030199		0,8642748	248,2	35'	0,5105430		0,8598307		35'	
35'	0,5031455		0,8642016	248,3	35'	0,5106681	416,7	0,8597558	247,6	35'	
13'	0,5032711	418,9	0,8641284	248,4	35'	0,5107932		0,8596809		35'	
35'	0,5033967		0,8640552	248,5	35'	0,5109183		0,8596060		35'	
14'	0,5035222	418,8	0,8639820	248,6	35'	0,5110434		0,8595311		35'	
35'	0,5036478		0,8639088	248,7	35'	0,5111685	416,6	0,8594562	247,7	35'	
15'	0,5037734		0,8638355	248,8	35'	0,5112936		0,8593813		35'	
35'	0,5038990	418,7	0,8637622	248,9	35'	0,5114187	416,5	0,8593064	247,8	35'	
16'	0,5040245		0,8636889	249,0	35'	0,5115438		0,8592315		35'	
35'	0,5041500		0,8636156	249,1	35'	0,5116689	416,4	0,8591566	247,9	35'	
17'	0,5042755	418,6	0,8635423	249,2	35'	0,5117940		0,8590817		35'	
35'	0,5044011		0,8634690	249,3	35'	0,5119191	416,3	0,8590068	248,0	35'	
18'	0,5045266	418,5	0,8633956	249,4	35'	0,5120442		0,8589319		35'	
35'	0,5046521		0,8633222	249,5	35'	0,5121693	416,2	0,8588570	248,1	35'	
19'	0,5047776		0,8632488	249,6	35'	0,5122944		0,8587821		35'	
35'	0,5049031	418,4	0,8631754	249,7	35'	0,5124195	416,1	0,8587072	248,2	35'	
20'	0,5050286		0,8631019	249,8	35'	0,5125446		0,8586323		35'	
35'	0,5051541	418,3	0,8630284	249,9	35'	0,5126697	416,0	0,8585574	248,3	35'	
21'	0,5052796		0,8629549	250,0	35'	0,5127948		0,8584825		35'	
35'	0,5054051		0,8628814	250,1	35'	0,5129199	415,9	0,8584076	248,4	35'	
22'	0,5055306	418,2	0,8628079	250,2	35'	0,5130450		0,8583327		35'	
35'	0,5056561		0,8627344	250,3	35'	0,5131701	415,8	0,8582578	248,5	35'	
23'	0,5057816		0,8626608	250,4	35'	0,5132952		0,8581829		35'	
35'	0,5059071	418,1	0,8625872	250,5	35'	0,5134203	415,7	0,8581080	248,6	35'	
24'	0,5060326		0,8625136	250,6	35'	0,5135454		0,8580331		35'	
35'	0,5061581		0,8624400	250,7	35'	0,5136705	415,6	0,8579582	248,7	35'	
25'	0,5062836		0,8623664	250,8	35'	0,5137956		0,8578833		35'	
35'	0,5064091	418,0	0,8622928	250,9	35'	0,5139207	415,5	0,8578084	248,8	35'	
26'	0,5065346		0,8622191	251,0	35'	0,5140458		0,8577335		35'	
35'	0,5066601	417,9	0,8621454	251,1	35'	0,5141709	415,4	0,8576586	248,9	35'	
27'	0,5067856	417,8	0,8620717	251,2	35'	0,5142960		0,8575837		35'	
35'	0,5069111		0,8619980	251,3	35'	0,5144211	415,3	0,8575088	249,0	35'	
28'	0,5070366		0,8619243	251,4	35'	0,5145462		0,8574339		35'	
35'	0,5071621	417,7	0,8618506	251,5	35'	0,5146713	415,2	0,8573590	249,1	35'	
29'	0,5072876		0,8617768	251,6	35'	0,5147964		0,8572841		35'	
35'	0,5074131		0,8617030	251,7	35'	0,5149215	415,1	0,8572092	249,2	35'	
30'	0,5075384		0,8616292	251,8	35'	0,5150466		0,8571343		35'	
	co-sin.	10"	sin.	10"		co-sin.	10"	sin.	10"		

31 deg.

	sin.	diff. 10''	co-sin.	diff. 10''		sin.	diff. 10''	co-sin.	diff. 10''		sin.	diff. 10''	co-sin.	diff. 10''		sin.	diff. 10''	co-sin.	diff. 10''
0	0,5150381		0,8571673		60	0,5224986		0,8526402		50	0,5224986		0,8526402		50	0,5224986		0,8526402	
36	0,5151628	415,5	0,8570925	249,8	60	0,5226226	413,3	0,8526642	253,5	36	0,5226226	413,3	0,8526642	253,5	36	0,5226226	413,3	0,8526642	253,5
1	0,5152874		0,8570174		57	0,5227466		0,8526881		3	0,5227466		0,8526881		3	0,5227466		0,8526881	
36	0,5154121	415,4	0,8569425	249,9	58	0,5228706	413,2	0,8527121	253,6	36	0,5228706	413,2	0,8527121	253,6	36	0,5228706	413,2	0,8527121	253,6
1	0,5155367	415,3	0,8568675	250,0	58	0,5229945		0,8527360	253,7	36	0,5229945		0,8527360	253,7	36	0,5229945		0,8527360	253,7
36	0,5156613		0,8567925	250,1	3	0,5231184		0,8527600		36	0,5231184		0,8527600		36	0,5231184		0,8527600	
36	0,5157859		0,8567175	250,2	57	0,5232424		0,8527838		3	0,5232424		0,8527838		3	0,5232424		0,8527838	
36	0,5159105		0,8566425		3	0,5233664		0,8528077		36	0,5233664		0,8528077		36	0,5233664		0,8528077	
36	0,5160351	415,2	0,8565674		56	0,5234903	413,1	0,8528316	253,8	36	0,5234903	413,1	0,8528316	253,8	36	0,5234903	413,1	0,8528316	253,8
36	0,5161597		0,8564924		3	0,5236141		0,8528555	253,9	36	0,5236141		0,8528555	253,9	36	0,5236141		0,8528555	253,9
5	0,5162842		0,8564173	250,3	55	0,5237381		0,8528793		5	0,5237381		0,8528793		5	0,5237381		0,8528793	
6	0,5164088		0,8563422	250,4	3	0,5238620		0,8529032	254,0	6	0,5238620		0,8529032	254,0	6	0,5238620		0,8529032	254,0
6	0,5165333		0,8562671	250,5	54	0,5239859	412,9	0,8529270	254,1	6	0,5239859	412,9	0,8529270	254,1	6	0,5239859	412,9	0,8529270	254,1
36	0,5166579		0,8561920	250,6	3	0,5241098		0,8529509		36	0,5241098		0,8529509		36	0,5241098		0,8529509	
7	0,5167824	415,1	0,8561168	250,7	53	0,5242336	412,8	0,8529747	254,2	7	0,5242336	412,8	0,8529747	254,2	7	0,5242336	412,8	0,8529747	254,2
		415,0																	
36	0,5164069		0,8560415		3	0,5243574		0,8530000		36	0,5243574		0,8530000		36	0,5243574		0,8530000	
8	0,5170314		0,8559664		50	0,5244813		0,8530238		8	0,5244813		0,8530238		8	0,5244813		0,8530238	
36	0,5171559	414,9	0,8558912	250,8	3	0,5246051		0,8530476	254,3	36	0,5246051		0,8530476	254,3	36	0,5246051		0,8530476	254,3
36	0,5172804	414,8	0,8558160	250,9	51	0,5247290	412,7	0,8530714	254,4	36	0,5247290	412,7	0,8530714	254,4	36	0,5247290	412,7	0,8530714	254,4
36	0,5174048		0,8557408		3	0,5248528		0,8530950		36	0,5248528		0,8530950		36	0,5248528		0,8530950	
10	0,5175293		0,8556655	251,0	50	0,5249766	412,5	0,8531166	254,5	10	0,5249766	412,5	0,8531166	254,5	10	0,5249766	412,5	0,8531166	254,5
36	0,5176537		0,8555902	251,0	3	0,5250994		0,8531403	254,6	36	0,5250994		0,8531403	254,6	36	0,5250994		0,8531403	254,6
11	0,5177782	414,7	0,8555149	251,1	40	0,5252231		0,8531639	254,7	11	0,5252231		0,8531639	254,7	11	0,5252231		0,8531639	254,7
36	0,5179026		0,8554396		3	0,5253469		0,8531875		36	0,5253469		0,8531875		36	0,5253469		0,8531875	
12	0,5180270		0,8553642		48	0,5254707		0,8532111		12	0,5254707		0,8532111		12	0,5254707		0,8532111	
36	0,5181514		0,8552889		1	0,5255945		0,8532347	254,8	36	0,5255945		0,8532347	254,8	36	0,5255945		0,8532347	254,8
13	0,5182758		0,8552135	251,3	43	0,5257181	412,4	0,8532582	254,9	13	0,5257181	412,4	0,8532582	254,9	13	0,5257181	412,4	0,8532582	254,9
36	0,5184002		0,8551381	251,3	3	0,5258418		0,8532817		36	0,5258418		0,8532817		36	0,5258418		0,8532817	
14	0,5185246	414,6	0,8550627	251,4	44	0,5259655	412,3	0,8533052	255,0	14	0,5259655	412,3	0,8533052	255,0	14	0,5259655	412,3	0,8533052	255,0
36	0,5186490	414,5	0,8549872	251,5	3	0,5260892		0,8533287	255,1	36	0,5260892		0,8533287	255,1	36	0,5260892		0,8533287	255,1
		414,4																	
15	0,5187733		0,8549118		45	0,5262130	412,2	0,8533522	255,2	15	0,5262130	412,2	0,8533522	255,2	15	0,5262130	412,2	0,8533522	255,2
36	0,5188977	414,3	0,8548364	251,6	3	0,5263367		0,8533757		36	0,5263367		0,8533757		36	0,5263367		0,8533757	
16	0,5190219		0,8547609	251,7	46	0,5264603		0,8533991	255,3	16	0,5264603		0,8533991	255,3	16	0,5264603		0,8533991	255,3
36	0,5191462		0,8546854		3	0,5265839		0,8534225		36	0,5265839		0,8534225		36	0,5265839		0,8534225	
17	0,5192705		0,8546099		47	0,5267075		0,8534459		17	0,5267075		0,8534459		17	0,5267075		0,8534459	
36	0,5193948		0,8545344		3	0,5268312		0,8534693		36	0,5268312		0,8534693		36	0,5268312		0,8534693	
18	0,5195191		0,8544588	251,9	48	0,5269548	412,1	0,8534927	255,4	18	0,5269548	412,1	0,8534927	255,4	18	0,5269548	412,1	0,8534927	255,4
36	0,5196433	414,2	0,8543833	252,0	3	0,5270784		0,8535161	255,5	36	0,5270784		0,8535161	255,5	36	0,5270784		0,8535161	255,5
19	0,5197675		0,8543076		41	0,5272020	412,0	0,8535394	255,6	19	0,5272020	412,0	0,8535394	255,6	19	0,5272020	412,0	0,8535394	255,6
36	0,5198919		0,8542320	252,1	3	0,5273256		0,8535627	255,7	36	0,5273256		0,8535627	255,7	36	0,5273256		0,8535627	255,7
20	0,5200161		0,8541564		50	0,5274492	411,9	0,8535860	255,8	20	0,5274492	411,9	0,8535860	255,8	20	0,5274492	411,9	0,8535860	255,8
36	0,5201404	414,1	0,8540808	252,2	3	0,5275728		0,8536093		36	0,5275728		0,8536093		36	0,5275728		0,8536093	
21	0,5202646	414,0	0,8540051	252,3	51	0,5276963	411,8	0,8536326	255,9	21	0,5276963	411,8	0,8536326	255,9	21	0,5276963	411,8	0,8536326	255,9
36	0,5203888	413,9	0,8539294	252,3	3	0,5278200		0,8536559		36	0,5278200		0,8536559		36	0,5278200		0,8536559	
22	0,5205130	413,8	0,8538537		38	0,5279433	411,7	0,8536792	256,0	22	0,5279433	411,7	0,8536792	256,0	22	0,5279433	411,7	0,8536792	256,0
36	0,5206372		0,8537780		3	0,5280669		0,8537022		36	0,5280669		0,8537022		36	0,5280669		0,8537022	
23	0,5207615		0,8537023	252,4	53	0,5281914		0,8537254	256,1	23	0,5281914		0,8537254	256,1	23	0,5281914		0,8537254	256,1
36	0,5208858		0,8536266	252,5	3	0,5283149		0,8537486	256,2	36	0,5283149		0,8537486	256,2	36	0,5283149		0,8537486	256,2
24	0,5210100		0,8535508	252,6	54	0,5284383	411,6	0,8537717	256,3	24	0,5284383	411,6	0,8537717	256,3	24	0,5284383	411,6	0,8537717	256,3
36	0,5211343		0,8534750	252,7	3	0,5285618		0,8537948	256,4	36	0,5285618		0,8537948	256,4	36	0,5285618		0,8537948	256,4
25	0,5212585		0,8533992		35	0,5286853		0,8538179		25	0,5286853		0,8538179		25	0,5286853		0,8538179	
36	0,5213828	413,7	0,8533234	252,8	3	0,5288088		0,8538410	256,5	36	0,5288088		0,8538410	256,5	36	0,5288088		0,8538410	256,5
26	0,5215069		0,8532475		36	0,5289322	413,3	0,8538641	256,6	26	0,5289322	413,3	0,8538641	256,6	26	0,5289322	413,3	0,8538641	256,6
36	0,5216310		0,8531717	252,9	3	0,5290556		0,8538872	256,7	36	0,5290556		0,8538872	256,7	36	0,5290556		0,8538872	256,7
27	0,5217553	413,5	0,8530958	253,0	57	0,5291790		0,8539102	256,8	27	0,5291790		0,8539102	256,8	27	0,5291790		0,8539102	256,8
36	0,5218794		0,8530199	253,1	3	0,5293024		0,8539332	256,9	36	0,5293024		0,8539332	256,9	36	0,5293024		0,8539332	256,9
28	0,5220035		0,8529440	253,2	38	0,5294258		0,8539562	257,0	28	0,5294258		0,8539562	257,0	28	0,5294258		0,8539562	257,0
36	0,5221275		0,8528681		3	0,5295492		0,8539792		36	0,5295492		0,8539792		36	0,5295492		0,8539792	
29	0,5222515		0,8527921		31	0,5296726		0,8540022	257,1	29	0,5296726		0,8540022	257,1	29	0,5296726		0,8540022	257,1
36	0,5223755	413,4	0,8527162	253,3	3	0,5297960		0,8540252	257,2	36	0,5297960		0,8540252	257,2	36	0,5297960		0,8540252	257,2
30	0,5224994		0,8526402		30	0,5299193		0,8540481		30	0,5299193		0,8540481		30	0,5299193		0,8540481	

58 deg.

32 deg.

	sin.	diff. 10'	co-sin.	diff. 10'		sin.	diff. 10'	co-sin.	diff. 10'		sin.	diff. 10'	co-sin.	diff. 10'		sin.	diff. 10'	co-sin.	diff. 10'
0'	0,53099193	411,0	0,8480481	257,0	60'	0,53799965	408,8	0,84535914	260,5	30'	0,53799965	408,8	0,84535914	260,5	30'	0,53799965	408,8	0,84535914	260,5
30'	0,53100469		0,84797710	257,1	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
1'	0,53101689		0,84796430	257,2	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53102899		0,84788168	257,3	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
2'	0,53104129		0,84786944	257,3	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
	0,53105358	410,0	0,84785664	257,3	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53106588	410,5	0,84784384	257,3	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53107817		0,84783104	257,4	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53109047		0,84781824	257,4	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53110277		0,84780544	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53111507	410,7	0,84779264	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53112737	410,5	0,84777984	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
	0,53113967		0,84776704	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53115197		0,84775424	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53116427		0,84774144	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
	0,53117657		0,84772864	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53118887		0,84771584	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53120117		0,84770304	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53121347		0,84769024	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
	0,53122577	410,0	0,84767744	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53123807	410,5	0,84766464	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53125037		0,84765184	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53126267		0,84763904	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53127497		0,84762624	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53128727		0,84761344	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53129957		0,84760064	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53131187		0,84758784	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53132417		0,84757504	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53133647		0,84756224	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53134877		0,84754944	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53136107		0,84753664	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53137337		0,84752384	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53138567		0,84751104	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53139797		0,84749824	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53141027		0,84748544	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53142257		0,84747264	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53143487		0,84745984	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53144717		0,84744704	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53145947		0,84743424	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53147177		0,84742144	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53148407		0,84740864	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53149637		0,84739584	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53150867		0,84738304	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53152097		0,84737024	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53153327		0,84735744	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53154557		0,84734464	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53155787		0,84733184	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53157017		0,84731904	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53158247		0,84730624	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53159477		0,84729344	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53160707		0,84728064	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53161937		0,84726784	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53163167		0,84725504	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53164397		0,84724224	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53165627		0,84722944	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53166857		0,84721664	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53168087		0,84720384	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53169317		0,84719104	257,5	50'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5	30'	0,53799965		0,84535914	260,5
30'	0,53170547		0,84717824	257,5	50'	0,53799965		0,84535914	260,5	30'									

57 deg.

	sin.	diff. 10''	co-sin.	diff. 10''		sin.	diff. 10''	co-sin.	diff. 10''
0'	0,544530		0,8386705		50'	0,5519370		0,8336856	
30'	0,5447610	405,7	0,8385913	264,2	30'	0,5520583	404,2	0,8338065	267,7
1'	0,5448830	405,6	0,8385121	59'	31'	0,5521795		0,8339272	267,8
30'	0,5450050	405,5	0,8384329	58'	32'	0,5523008		0,8340480	267,9
2'	0,5451269	405,4	0,8383536	58'	33'	0,5524220		0,8341686	268,0
30'	0,5452488	405,3	0,8382743	58'	34'	0,5525433	404,1	0,8342892	268,1
3'	0,5453707		0,8381950	57'	35'	0,5526645	404,0	0,8344098	268,2
30'	0,5454926	405,5	0,8381157	57'	36'	0,5527857	403,9	0,8345304	268,3
4'	0,5456145	405,4	0,8380363	56'	37'	0,5529069	403,8	0,8346510	268,4
30'	0,5457364	405,3	0,8379569	56'	38'	0,5530281		0,8347716	268,5
5'	0,5458583	405,2	0,8378775	55'	39'	0,5531492		0,8348922	268,6
30'	0,5459802	405,1	0,8377981	54'	40'	0,5532703	403,7	0,8350128	268,7
6'	0,5461020	405,0	0,8377187	54'	41'	0,5533915		0,8351334	268,8
30'	0,5462238	405,0	0,8376393	53'	42'	0,5535126		0,8352540	268,9
7'	0,5463456		0,8375598	53'	43'	0,5536338		0,8353746	269,0
30'	0,5464674	405,2	0,8374803	52'	44'	0,5537549	403,6	0,8354952	269,1
8'	0,5465892	405,1	0,8374008	51'	45'	0,5538760	403,5	0,8356158	269,2
30'	0,5467110	405,0	0,8373213	51'	46'	0,5539971		0,8357364	269,3
9'	0,5468328	405,0	0,8372418	50'	47'	0,5541182		0,8358570	269,4
30'	0,5469545	405,0	0,8371623	50'	48'	0,5542393	403,4	0,8359776	269,5
10'	0,5470763		0,8370827	49'	49'	0,5543603	403,3	0,8360982	269,6
30'	0,5471981	405,7	0,8370031	48'	50'	0,5544814		0,8362188	269,7
11'	0,5473198	405,6	0,8369235	48'	51'	0,5546024		0,8363394	269,8
30'	0,5474415	405,5	0,8368439	47'	52'	0,5547234	403,2	0,8364599	269,9
12'	0,5475632	405,4	0,8367643	46'	53'	0,5548444		0,8365805	270,0
30'	0,5476849	405,3	0,8366847	46'	54'	0,5549654	403,1	0,8367011	270,1
13'	0,5478065	405,3	0,8366050	45'	55'	0,5550864	403,0	0,8368217	270,2
30'	0,5479283	405,2	0,8365253	45'	56'	0,5552074	402,9	0,8369423	270,3
14'	0,5480499	405,1	0,8364456	44'	57'	0,5553283	402,8	0,8370629	270,4
30'	0,5481716	405,0	0,8363659	44'	58'	0,5554493		0,8371835	270,5
15'	0,5482932	405,0	0,8362861	43'	59'	0,5555702		0,8373041	270,6
30'	0,5484149	405,0	0,8362064	43'	60'	0,5556912	402,7	0,8374247	270,7
16'	0,5485365	405,0	0,8361265	42'	1'	0,5558121	402,6	0,8375453	270,8
30'	0,5486581	405,0	0,8360468	42'	2'	0,5559330	402,5	0,8376659	270,9
17'	0,5487797	405,0	0,8359670	41'	3'	0,5560539	402,4	0,8377865	271,0
30'	0,5489013	405,0	0,8358873	41'	4'	0,5561747		0,8379071	271,1
18'	0,5490228	405,0	0,8358075	40'	5'	0,5562955	402,3	0,8380277	271,2
30'	0,5491444	405,0	0,8357275	40'	6'	0,5564164	402,2	0,8381483	271,3
19'	0,5492659	405,0	0,8356476	39'	7'	0,5565373	402,1	0,8382689	271,4
30'	0,5493875	405,0	0,8355677	39'	8'	0,5566582	402,0	0,8383895	271,5
20'	0,5495090	405,0	0,8354878	38'	9'	0,5567790	401,9	0,8385101	271,6
30'	0,5496305	405,0	0,8354079	38'	10'	0,5569000	401,8	0,8386307	271,7
21'	0,5497520	404,9	0,8353279	37'	11'	0,5570208	401,7	0,8387513	271,8
30'	0,5498735	404,8	0,8352479	37'	12'	0,5571417	401,6	0,8388719	271,9
22'	0,5499950	404,8	0,8351680	36'	13'	0,5572625	401,5	0,8389925	272,0
30'	0,5501165	404,8	0,8350880	36'	14'	0,5573833		0,8391131	272,1
23'	0,5502379	404,7	0,8350080	35'	15'	0,5575041	401,4	0,8392337	272,2
30'	0,5503593	404,7	0,8349280	35'	16'	0,5576249	401,3	0,8393543	272,3
24'	0,5504807	404,7	0,8348479	34'	17'	0,5577457	401,2	0,8394749	272,4
30'	0,5506022	404,7	0,8347678	34'	18'	0,5578665	401,1	0,8395955	272,5
25'	0,5507236	404,6	0,8346877	33'	19'	0,5579873	401,0	0,8397161	272,6
30'	0,5508450	404,6	0,8346076	33'	20'	0,5581081	400,9	0,8398367	272,7
26'	0,5509663	404,5	0,8345275	32'	21'	0,5582289	400,8	0,8399573	272,8
30'	0,5510877	404,5	0,8344474	32'	22'	0,5583497	400,7	0,8400779	272,9
27'	0,5512091	404,4	0,8343672	31'	23'	0,5584705	400,6	0,8401985	273,0
30'	0,5513305	404,4	0,8342870	31'	24'	0,5585913	400,5	0,8403191	273,1
28'	0,5514518	404,3	0,8342068	30'	25'	0,5587121	400,4	0,8404397	273,2
30'	0,5515731	404,3	0,8341266	30'	26'	0,5588329	400,3	0,8405603	273,3
29'	0,5516944	404,3	0,8340463	29'	27'	0,5589537	400,2	0,8406809	273,4
30'	0,5518157	404,2	0,8339661	29'	28'	0,5590745	400,1	0,8408015	273,5
30'	0,5519370	404,2	0,8338858	28'	29'	0,5591953	400,0	0,8409221	273,6
	co-sin.	diff.	sin.	diff.		co-sin.	diff.	sin.	diff.

	sin.	diff. 10'	co-sin.	diff. 10'		sin.	diff. 10'	co-sin.	diff. 10'		sin.	diff. 10'	co-sin.	diff. 10'
0'	0,5531920		0,8290376		60'	0,5569408		0,8282252		120'	0,5606896		0,8274128	
30'	0,5531935	15	0,8290366	15	63'	0,5569561	15	0,8282099	15	123'	0,5607049	15	0,8273975	15
1'	0,5531950	15	0,8290356	15	66'	0,5569714	15	0,8281946	15	126'	0,5607202	15	0,8273822	15
30'	0,5531965	15	0,8290346	15	69'	0,5569867	15	0,8281793	15	129'	0,5607355	15	0,8273669	15
1'	0,5531980	15	0,8290336	15	72'	0,5570020	15	0,8281640	15	132'	0,5607508	15	0,8273516	15
30'	0,5531995	15	0,8290326	15	75'	0,5570173	15	0,8281487	15	135'	0,5607661	15	0,8273363	15
1'	0,5532010	15	0,8290316	15	78'	0,5570326	15	0,8281334	15	138'	0,5607814	15	0,8273210	15
30'	0,5532025	15	0,8290306	15	81'	0,5570479	15	0,8281181	15	141'	0,5607967	15	0,8273057	15
1'	0,5532040	15	0,8290296	15	84'	0,5570632	15	0,8281028	15	144'	0,5608120	15	0,8272904	15
30'	0,5532055	15	0,8290286	15	87'	0,5570785	15	0,8280875	15	147'	0,5608273	15	0,8272751	15
1'	0,5532070	15	0,8290276	15	90'	0,5570938	15	0,8280722	15	150'	0,5608426	15	0,8272598	15
30'	0,5532085	15	0,8290266	15	93'	0,5571091	15	0,8280569	15	153'	0,5608579	15	0,8272445	15
1'	0,5532100	15	0,8290256	15	96'	0,5571244	15	0,8280416	15	156'	0,5608732	15	0,8272292	15
30'	0,5532115	15	0,8290246	15	99'	0,5571397	15	0,8280263	15	159'	0,5608885	15	0,8272139	15
1'	0,5532130	15	0,8290236	15	102'	0,5571550	15	0,8280110	15	162'	0,5609038	15	0,8271986	15
30'	0,5532145	15	0,8290226	15	105'	0,5571703	15	0,8279957	15	165'	0,5609191	15	0,8271833	15
1'	0,5532160	15	0,8290216	15	108'	0,5571856	15	0,8279804	15	168'	0,5609344	15	0,8271680	15
30'	0,5532175	15	0,8290206	15	111'	0,5572009	15	0,8279651	15	171'	0,5609497	15	0,8271527	15
1'	0,5532190	15	0,8290196	15	114'	0,5572162	15	0,8279498	15	174'	0,5609650	15	0,8271374	15
30'	0,5532205	15	0,8290186	15	117'	0,5572315	15	0,8279345	15	177'	0,5609803	15	0,8271221	15
1'	0,5532220	15	0,8290176	15	120'	0,5572468	15	0,8279192	15	180'	0,5609956	15	0,8271068	15
30'	0,5532235	15	0,8290166	15	123'	0,5572621	15	0,8279039	15	183'	0,5610109	15	0,8270915	15
1'	0,5532250	15	0,8290156	15	126'	0,5572774	15	0,8278886	15	186'	0,5610262	15	0,8270762	15
30'	0,5532265	15	0,8290146	15	129'	0,5572927	15	0,8278733	15	189'	0,5610415	15	0,8270609	15
1'	0,5532280	15	0,8290136	15	132'	0,5573080	15	0,8278580	15	192'	0,5610568	15	0,8270456	15
30'	0,5532295	15	0,8290126	15	135'	0,5573233	15	0,8278427	15	195'	0,5610721	15	0,8270303	15</

	sin.	diff. 10"	co-sin.	diff. 10"			sin.	diff. 10"	co-sin.	diff. 10"			sin.	diff. 10"	co-sin.	diff. 10"
0'	0,5735754		0,8191581		60'	30'	0,5807030		0,8144155		30'		0,5807030		0,8144155	
1	0,5735955	397,2	0,8190657	278,2	31'	31'	0,5808214	394,7	0,8143010	281,7	31'		0,5808214	394,7	0,8143010	
2	0,5736157	397,1	0,8189732	278,3	32'	32'	0,5809397	394,6	0,8141865	281,7	32'		0,5809397	394,6	0,8141865	
3	0,5736358	397,0	0,8188807		33'	33'	0,5810581	394,5	0,8140720	281,7	33'		0,5810581	394,5	0,8140720	
4	0,5736559		0,8187882		34'	34'	0,5811765		0,8139575	281,8	34'		0,5811765		0,8139575	
5	0,5736760	396,9	0,8186957	278,4	35'	35'	0,5812949		0,8138430	281,8	35'		0,5812949		0,8138430	
6	0,5736961	396,8	0,8186032	278,5	36'	36'	0,5814134	394,3	0,8137285	281,8	36'		0,5814134	394,3	0,8137285	
7	0,5737162		0,8185107	278,6	37'	37'	0,5815318		0,8136140	281,9	37'		0,5815318		0,8136140	
8	0,5737363	396,7	0,8184182	278,7	38'	38'	0,5816502		0,8134995	282,0	38'		0,5816502		0,8134995	
9	0,5737564		0,8183257		39'	39'	0,5817686		0,8133850	282,1	39'		0,5817686		0,8133850	
10	0,5737765	396,6	0,8182332	278,8	40'	40'	0,5818870	394,2	0,8132705	282,2	40'		0,5818870	394,2	0,8132705	
11	0,5737966		0,8181407	278,9	41'	41'	0,5820054		0,8131560	282,3	41'		0,5820054		0,8131560	
12	0,5738167	396,5	0,8180482	279,0	42'	42'	0,5821238	394,1	0,8130415	282,4	42'		0,5821238	394,1	0,8130415	
13	0,5738368		0,8179557		43'	43'	0,5822422		0,8129270	282,5	43'		0,5822422		0,8129270	
14	0,5738569	396,4	0,8178632	279,1	44'	44'	0,5823606	393,9	0,8128125	282,6	44'		0,5823606	393,9	0,8128125	
15	0,5738770		0,8177707	279,2	45'	45'	0,5824790		0,8126980	282,7	45'		0,5824790		0,8126980	
16	0,5738971	396,3	0,8176782	279,3	46'	46'	0,5825974	393,8	0,8125835	282,8	46'		0,5825974	393,8	0,8125835	
17	0,5739172		0,8175857		47'	47'	0,5827158		0,8124690	282,9	47'		0,5827158		0,8124690	
18	0,5739373	396,2	0,8174932	279,4	48'	48'	0,5828342	393,7	0,8123545	283,0	48'		0,5828342	393,7	0,8123545	
19	0,5739574		0,8174007	279,5	49'	49'	0,5829526		0,8122400	283,1	49'		0,5829526		0,8122400	
20	0,5739775	396,1	0,8173082	279,6	50'	50'	0,5830710	393,6	0,8121255	283,2	50'		0,5830710	393,6	0,8121255	
21	0,5739976		0,8172157		51'	51'	0,5831894		0,8120110	283,3	51'		0,5831894		0,8120110	
22	0,5740177	396,0	0,8171232	279,7	52'	52'	0,5833078	393,5	0,8118965	283,4	52'		0,5833078	393,5	0,8118965	
23	0,5740378		0,8170307	279,8	53'	53'	0,5834262		0,8117820	283,5	53'		0,5834262		0,8117820	
24	0,5740579	395,9	0,8169382	279,9	54'	54'	0,5835446	393,4	0,8116675	283,6	54'		0,5835446	393,4	0,8116675	
25	0,5740780		0,8168457		55'	55'	0,5836630		0,8115530	283,7	55'		0,5836630		0,8115530	
26	0,5740981	395,8	0,8167532	279,0	56'	56'	0,5837814	393,3	0,8114385	283,8	56'		0,5837814	393,3	0,8114385	
27	0,5741182		0,8166607	279,1	57'	57'	0,5838998		0,8113240	283,9	57'		0,5838998		0,8113240	
28	0,5741383	395,7	0,8165682	279,2	58'	58'	0,5840182	393,2	0,8112095	284,0	58'		0,5840182	393,2	0,8112095	
29	0,5741584		0,8164757		59'	59'	0,5841366		0,8110950	284,1	59'		0,5841366		0,8110950	
30	0,5741785	395,6	0,8163832	279,3	60'	60'	0,5842550	393,1	0,8109805	284,2	60'		0,5842550	393,1	0,8109805	
31	0,5741986		0,8162907				0,5843734		0,8108660	284,3			0,5843734		0,8108660	
32	0,5742187	395,5	0,8161982	280,0			0,5844918	393,0	0,8107515	284,4			0,5844918	393,0	0,8107515	
33	0,5742388		0,8161057				0,5846102		0,8106370	284,5			0,5846102		0,8106370	
34	0,5742589	395,4	0,8160132	280,1			0,5847286	392,9	0,8105225	284,6			0,5847286	392,9	0,8105225	
35	0,5742790		0,8159207	280,2			0,5848470		0,8104080	284,7			0,5848470		0,8104080	
36	0,5742991	395,3	0,8158282	280,3			0,5849654	392,8	0,8102935	284,8			0,5849654	392,8	0,8102935	
37	0,5743192		0,8157357				0,5850838		0,8101790	284,9			0,5850838		0,8101790	
38	0,5743393	395,2	0,8156432	281,0			0,5852022	392,7	0,8100645	285,0			0,5852022	392,7	0,8100645	
39	0,5743594		0,8155507				0,5853206		0,8099500	285,1			0,5853206		0,8099500	
40	0,5743795	395,1	0,8154582	281,1			0,5854390	392,6	0,8098355	285,2			0,5854390	392,6	0,8098355	
41	0,5743996		0,8153657				0,5855574		0,8097210	285,3			0,5855574		0,8097210	
42	0,5744197	395,0	0,8152732	281,2			0,5856758	392,5	0,8096065	285,4			0,5856758	392,5	0,8096065	
43	0,5744398		0,8151807				0,5857942		0,8094920	285,5			0,5857942		0,8094920	
44	0,5744599	394,9	0,8150882	281,3			0,5859126	392,4	0,8093775	285,6			0,5859126	392,4	0,8093775	
45	0,5744800		0,8149957				0,5860310		0,8092630	285,7			0,5860310		0,8092630	
46	0,5745001	394,8	0,8149032	281,4			0,5861494	392,3	0,8091485	285,8			0,5861494	392,3	0,8091485	
47	0,5745202		0,8148107				0,5862678		0,8090340	285,9			0,5862678		0,8090340	
48	0,5745403	394,7	0,8147182	281,5			0,5863862	392,2	0,8089195	286,0			0,5863862	392,2	0,8089195	
49	0,5745604		0,8146257				0,5865046		0,8088050	286,1			0,5865046		0,8088050	
50	0,5745805	394,6	0,8145332	281,6			0,5866230	392,1	0,8086905	286,2			0,5866230	392,1	0,8086905	
51	0,5746006		0,8144407				0,5867414		0,8085760	286,3			0,5867414		0,8085760	
52	0,5746207	394,5	0,8143482	281,7			0,5868598	392,0	0,8084615	286,4			0,5868598	392,0	0,8084615	
53	0,5746408		0,8142557				0,5869782		0,8083470	286,5			0,5869782		0,8083470	
54	0,5746609	394,4	0,8141632	281,8			0,5870966	391,9	0,8082325	286,6			0,5870966	391,9	0,8082325	
55	0,5746810		0,8140707				0,5872150		0,8081180	286,7			0,5872150		0,8081180	
56	0,5747011	394,3	0,8139782	281,9			0,5873334	391,8	0,8080035	286,8			0,5873334	391,8	0,8080035	
57	0,5747212		0,8138857				0,5874518		0,8078890	286,9			0,5874518		0,8078890	
58	0,5747413	394,2	0,8137932	282,0			0,5875702	391,7	0,8077745	287,0			0,5875702	391,7	0,8077745	
59	0,5747614		0,8137007				0,5876886		0,8076600	287,1			0,5876886		0,8076600	
60	0,5747815	394,1	0,8136082	282,1			0,5878070	391,6	0,8075455	287,2			0,5878070	391,6	0,8075455	
61	0,5748016		0,8135157				0,5879254		0,8074310	287,3			0,5879254		0,8074310	
62	0,5748217	394,0	0,8134232	282,2			0,5880438	391,5	0,8073165	287,4			0,5880438	391,5	0,8073165	
63	0,5748418		0,8133307				0,5881622		0,8072020	287,5			0,5881622		0,8072020	
64	0,5748619	393,9	0,8132382	282,3			0,5882806	391,4	0,8070875	287,6			0,5882806	391,4	0,8070875	
65	0,5748820		0,8131457				0,5883990		0,8069730	287,7			0,5883990		0,8069730	
66	0,5749021	393,8	0,8130532	282,4			0,5885174	391,3	0,8068585	287,8			0,5885174	391,3	0,8068585	
67	0,5749222		0,8129607				0,5886358		0,8067440	287,9			0,5886358		0,8067440	
68	0,5749423	393,7	0,8128682	282,5			0,5887542	391,2	0,8066295	288,0			0,5887542	391,2	0,8066295	
69	0,5749624		0,8127757				0,5888726		0,8065150	288,1			0,5888726		0,8065150	
70	0,5749825	393,6	0,8126832	282,6			0,5889910	391,1	0,8064005	288,2			0,5889910	391,1	0,8064005	
71	0,5750026		0,8125907				0,5891094		0,8062860	288,3			0,5891094		0,8062860	
72	0,5750227	393,5	0,8124982	282,7			0,5892278	391,0	0,8061715	288,4			0,5892278	391,0	0,8061715	
73	0,5750428		0,8124057				0,5893462		0,8060570	288,5			0,5893462		0,8060570	
74	0,5750629	393,4	0,8123132	282,8			0,5894646	390,9	0,8059425	288,6			0,5894646	390,9	0,8059425	
75	0,5750830		0,8122207				0,5895830		0,8058280	288,7			0,5895830		0,8058280	
76	0,5751031	393,3	0,8121282	282,9			0,5897014	390,8	0,8057135							

36 deg.

	sin.	diff. 10'	co-sin.	diff. 10'		sin.	diff. 10'	co-sin.	diff. 10'		sin.	diff. 10'	co-sin.	diff. 10'
0'	0,5877853	392,2	0,8020170	285,0	60'	0,5948228	382,7	0,8038669	288,5	30'	0,5877853	392,2	0,8020170	285,0
36	0,5877900	392,1	0,8020315	285,1	36	0,5949377	382,6	0,8038774	288,5	36	0,5877900	392,1	0,8020315	285,1
1'	0,5880206	392,0	0,8020460	285,2	36	0,5950566	382,5	0,8038883	288,5	1'	0,5880206	392,0	0,8020460	285,2
36	0,5881382		0,8020605		36	0,5951735		0,8038993		36	0,5881382		0,8020605	
2'	0,5883653		0,8020749	285,3	36	0,5952904		0,8039107	288,7	2'	0,5883653		0,8020749	285,3
36	0,5883734		0,8020893		36	0,5954073		0,8039211		36	0,5883734		0,8020893	
3'	0,5884910		0,8021037		36	0,5955241		0,8039325		3'	0,5884910		0,8021037	
36	0,5886086	391,9	0,8021181	285,4	36	0,5956409	382,4	0,8039439	288,8	36	0,5886086	391,9	0,8021181	285,4
4'	0,5887262		0,8021325	285,5	36	0,5957577	382,3	0,8039553		4'	0,5887262		0,8021325	285,5
36	0,5888438	391,8	0,8021469		36	0,5958745		0,8039667		36	0,5888438	391,8	0,8021469	
5'	0,5889613		0,8021612		36	0,5959913		0,8039781		5'	0,5889613		0,8021612	
36	0,5890789		0,8021756	285,6	36	0,5961081		0,8039895		36	0,5890789		0,8021756	285,6
6'	0,5891964	391,7	0,8021900	285,7	36	0,5962249	382,2	0,8040009	289,1	6'	0,5891964	391,7	0,8021900	285,7
36	0,5893139	391,6	0,8022044		36	0,5963417	382,1	0,8040123	289,2	36	0,5893139	391,6	0,8022044	
7'	0,5894314	391,5	0,8022188	285,8	36	0,5964584	382,0	0,8040237	289,3	7'	0,5894314	391,5	0,8022188	285,8
36	0,5895489		0,8022332		36	0,5965751		0,8040351		36	0,5895489		0,8022332	
8'	0,5896665		0,8022476	285,9	36	0,5966918		0,8040465		8'	0,5896665		0,8022476	285,9
36	0,5897837		0,8022620	286,0	36	0,5968085		0,8040579		36	0,5897837		0,8022620	286,0
9'	0,5899012		0,8022764		36	0,5969252		0,8040693		9'	0,5899012		0,8022764	
36	0,5900187	391,4	0,8022908	286,1	36	0,5970419	388,9	0,8040807	289,4	36	0,5900187	391,4	0,8022908	286,1
10'	0,5901361	391,3	0,8023052	286,2	36	0,5971586	388,8	0,8040921		10'	0,5901361	391,3	0,8023052	286,2
36	0,5902535		0,8023196		36	0,5972753		0,8041035		36	0,5902535		0,8023196	
11'	0,5903709		0,8023340	286,3	36	0,5973919	388,7	0,8041149	289,5	11'	0,5903709		0,8023340	286,3
36	0,5904883		0,8023484		36	0,5975085		0,8041263		36	0,5904883		0,8023484	
12'	0,5906057	391,2	0,8023628	286,4	36	0,5976251		0,8041377	289,6	12'	0,5906057	391,2	0,8023628	286,4
36	0,5907231	391,1	0,8023772	286,5	36	0,5977417	388,6	0,8041491	289,7	36	0,5907231	391,1	0,8023772	286,5
13'	0,5908404	391,0	0,8023916	286,6	36	0,5978583	388,5	0,8041605	289,8	13'	0,5908404	391,0	0,8023916	286,6
36	0,5909577		0,8024060	286,7	36	0,5979749	388,4	0,8041719	289,9	36	0,5909577		0,8024060	286,7
14'	0,5910750		0,8024204		36	0,5980915		0,8041833		14'	0,5910750		0,8024204	
36	0,5911923		0,8024348	286,8	36	0,5982081		0,8041947	290,0	36	0,5911923		0,8024348	286,8
15'	0,5913096	390,9	0,8024492	286,9	36	0,5983246	388,3	0,8042061	290,1	15'	0,5913096	390,9	0,8024492	286,9
36	0,5914269	390,8	0,8024636	287,0	36	0,5984412		0,8042175		36	0,5914269	390,8	0,8024636	287,0
16'	0,5915442		0,8024780		36	0,5985577		0,8042289		16'	0,5915442		0,8024780	
36	0,5916615		0,8024924	287,1	36	0,5986742		0,8042403		36	0,5916615		0,8024924	287,1
17'	0,5917787		0,8025068	287,2	36	0,5987907		0,8042517		17'	0,5917787		0,8025068	287,2
36	0,5918959	390,7	0,8025212	287,3	36	0,5989072	388,2	0,8042631	290,2	36	0,5918959	390,7	0,8025212	287,3
18'	0,5920132	390,6	0,8025356	287,4	36	0,5990236	388,1	0,8042745	290,3	18'	0,5920132	390,6	0,8025356	287,4
36	0,5921304	390,5	0,8025500	287,5	36	0,5991401	388,0	0,8042859	290,4	36	0,5921304	390,5	0,8025500	287,5
19'	0,5922476		0,8025644		36	0,5992565		0,8042973		19'	0,5922476		0,8025644	
36	0,5923648		0,8025788	287,6	36	0,5993729		0,8043087		36	0,5923648		0,8025788	287,6
20'	0,5924819	390,4	0,8025932	287,7	36	0,5994893	387,9	0,8043201	290,5	20'	0,5924819	390,4	0,8025932	287,7
36	0,5925991	390,3	0,8026076	287,8	36	0,5996057	387,8	0,8043315	290,6	36	0,5925991	390,3	0,8026076	287,8
21'	0,5927163		0,8026220		36	0,5997221		0,8043429		21'	0,5927163		0,8026220	
36	0,5928334		0,8026364	287,9	36	0,5998385		0,8043543		36	0,5928334		0,8026364	287,9
22'	0,5929505	390,2	0,8026508	288,0	36	0,5999549		0,8043657		22'	0,5929505	390,2	0,8026508	288,0
36	0,5930676		0,8026652		36	0,6000713		0,8043771		36	0,5930676		0,8026652	
23'	0,5931847	390,1	0,8026796	288,1	36	0,6001876	387,7	0,8043885	290,7	23'	0,5931847	390,1	0,8026796	288,1
36	0,5933018	390,0	0,8026940	288,2	36	0,6003039		0,8044000		36	0,5933018	390,0	0,8026940	288,2
24'	0,5934189		0,8027084		36	0,6004202		0,8044114		24'	0,5934189		0,8027084	
36	0,5935360		0,8027228	288,3	36	0,6005365	387,6	0,8044228	290,8	36	0,5935360		0,8027228	288,3
25'	0,5936530		0,8027372		36	0,6006528		0,8044342		25'	0,5936530		0,8027372	
36	0,5937701	389,9	0,8027516	288,4	36	0,6007691	387,5	0,8044456	290,9	36	0,5937701	389,9	0,8027516	288,4
26'	0,5938871	389,8	0,8027660	288,5	36	0,6008854		0,8044570		26'	0,5938871	389,8	0,8027660	288,5
36	0,5940041		0,8027804		36	0,6010017		0,8044684		36	0,5940041		0,8027804	
27'	0,5941211	389,7	0,8027948	288,6	36	0,6011179		0,8044798		27'	0,5941211	389,7	0,8027948	288,6
36	0,5942381		0,8028092		36	0,6012341		0,8044912		36	0,5942381		0,8028092	
28'	0,5943550	389,6	0,8028236	288,7	36	0,6013503	387,4	0,8045026	291,0	28'	0,5943550	389,6	0,8028236	288,7
36	0,5944720	389,5	0,8028380	288,8	36	0,6014665	387,3	0,8045140	291,1	36	0,5944720	389,5	0,8028380	288,8
29'	0,5945889		0,8028524		36	0,6015827		0,8045254		29'	0,5945889		0,8028524	
36	0,5947059		0,8028668	288,9	36	0,6016989	387,2	0,8045368	291,2	36	0,5947059		0,8028668	288,9
30'	0,5948228		0,8028812		36	0,6018150		0,8045482		30'	0,5948228		0,8028812	
	co-sin.	10'	sin.	10'		co-sin.	10'	sin.	10'		co-sin.	10'	sin.	10'

53 deg.

37 deg.

[illegible]

38 deg.

	sin.	diff. 10"	co-sin.	diff. 10"		sin.	diff. 10"	co-sin.	diff. 10"		sin.	diff. 10"	co-sin.	diff. 10"
0'	0,6186615	38a,0	0,7830107	298,5	60'	0,6285146	379,3	0,7780508	301,8	30'	0,6186615	38a,0	0,7830107	298,5
30'	0,6187761	381,9	0,7829212	298,6	30'	0,6286294	379,3	0,7781656	301,9	30'	0,6187761	381,9	0,7829212	298,6
1'	0,6188907	381,8	0,7828316	298,7	30'	0,6287442	379,3	0,7782804	302,0	30'	0,6188907	381,8	0,7828316	298,7
30'	0,6190053	381,8	0,7827420	298,8	30'	0,6288590	379,3	0,7783952	302,1	30'	0,6190053	381,8	0,7827420	298,8
1'	0,6191198	381,7	0,7826524	298,9	30'	0,6289738	379,3	0,7785100	302,2	30'	0,6191198	381,7	0,7826524	298,9
30'	0,6192343	381,7	0,7825628	299,0	30'	0,6290886	379,3	0,7786248	302,3	30'	0,6192343	381,7	0,7825628	299,0
30'	0,6193488	381,6	0,7824732	299,1	30'	0,6292034	379,3	0,7787396	302,4	30'	0,6193488	381,6	0,7824732	299,1
30'	0,6194633	381,5	0,7823836	299,2	30'	0,6293182	379,3	0,7788544	302,5	30'	0,6194633	381,5	0,7823836	299,2
40'	0,6195778	381,4	0,7822940	299,3	30'	0,6294330	379,3	0,7789692	302,6	30'	0,6195778	381,4	0,7822940	299,3
30'	0,6196923	381,3	0,7822044	299,4	30'	0,6295478	379,3	0,7790840	302,7	30'	0,6196923	381,3	0,7822044	299,4
50'	0,6198068	381,2	0,7821148	299,5	30'	0,6296626	379,3	0,7791988	302,8	30'	0,6198068	381,2	0,7821148	299,5
30'	0,6199213	381,1	0,7820252	299,6	30'	0,6297774	379,3	0,7793136	302,9	30'	0,6199213	381,1	0,7820252	299,6
30'	0,6200358	381,0	0,7819356	299,7	30'	0,6298922	379,3	0,7794284	303,0	30'	0,6200358	381,0	0,7819356	299,7
30'	0,6201503	380,9	0,7818460	299,8	30'	0,6299070	379,3	0,7795432	303,1	30'	0,6201503	380,9	0,7818460	299,8
30'	0,6202648	380,8	0,7817564	299,9	30'	0,6300218	379,3	0,7796580	303,2	30'	0,6202648	380,8	0,7817564	299,9
30'	0,6203793	380,7	0,7816668	300,0	30'	0,6301366	379,3	0,7797728	303,3	30'	0,6203793	380,7	0,7816668	300,0
30'	0,6204938	380,6	0,7815772	300,1	30'	0,6302514	379,3	0,7798876	303,4	30'	0,6204938	380,6	0,7815772	300,1
30'	0,6206083	380,5	0,7814876	300,2	30'	0,6303662	379,3	0,7799024	303,5	30'	0,6206083	380,5	0,7814876	300,2
30'	0,6207228	380,4	0,7813980	300,3	30'	0,6304810	379,3	0,7800172	303,6	30'	0,6207228	380,4	0,7813980	300,3
30'	0,6208373	380,3	0,7813084	300,4	30'	0,6305958	379,3	0,7801320	303,7	30'	0,6208373	380,3	0,7813084	300,4
30'	0,6209518	380,2	0,7812188	300,5	30'	0,6307106	379,3	0,7802468	303,8	30'	0,6209518	380,2	0,7812188	300,5
30'	0,6210663	380,1	0,7811292	300,6	30'	0,6308254	379,3	0,7803616	303,9	30'	0,6210663	380,1	0,7811292	300,6
30'	0,6211808	379,9	0,7810396	300,7	30'	0,6309402	379,3	0,7804764	304,0	30'	0,6211808	379,9	0,7810396	300,7
30'	0,6212953	379,8	0,7809500	300,8	30'	0,6310550	379,3	0,7805912	304,1	30'	0,6212953	379,8	0,7809500	300,8
30'	0,6214098	379,7	0,7808604	300,9	30'	0,6311698	379,3	0,7807060	304,2	30'	0,6214098	379,7	0,7808604	300,9
30'	0,6215243	379,6	0,7807708	301,0	30'	0,6312846	379,3	0,7808208	304,3	30'	0,6215243	379,6	0,7807708	301,0
30'	0,6216388	379,5	0,7806812	301,1	30'	0,6313994	379,3	0,7809356	304,4	30'	0,6216388	379,5	0,7806812	301,1
30'	0,6217533	379,4	0,7805916	301,2	30'	0,6315142	379,3	0,7810504	304,5	30'	0,6217533	379,4	0,7805916	301,2
30'	0,6218678	379,3	0,7805020	301,3	30'	0,6316290	379,3	0,7811652	304,6	30'	0,6218678	379,3	0,7805020	301,3
30'	0,6219823	379,2	0,7804124	301,4	30'	0,6317438	379,3	0,7812800	304,7	30'	0,6219823	379,2	0,7804124	301,4
30'	0,6220968	379,1	0,7803228	301,5	30'	0,6318586	379,3	0,7813948	304,8	30'	0,6220968	379,1	0,7803228	301,5
30'	0,6222113	379,0	0,7802332	301,6	30'	0,6319734	379,3	0,7815096	304,9	30'	0,6222113	379,0	0,7802332	301,6
30'	0,6223258	378,9	0,7801436	301,7	30'	0,6320882	379,3	0,7816244	305,0	30'	0,6223258	378,9	0,7801436	301,7
30'	0,6224403	378,8	0,7800540	301,8	30'	0,6322030	379,3	0,7817392	305,1	30'	0,6224403	378,8	0,7800540	301,8
30'	0,6225548	378,7	0,7799644	301,9	30'	0,6323178	379,3	0,7818540	305,2	30'	0,6225548	378,7	0,7799644	301,9
30'	0,6226693	378,6	0,7798748	302,0	30'	0,6324326	379,3	0,7819688	305,3	30'	0,6226693	378,6	0,7798748	302,0
30'	0,6227838	378,5	0,7797852	302,1	30'	0,6325474	379,3	0,7820836	305,4	30'	0,6227838	378,5	0,7797852	302,1
30'	0,6228983	378,4	0,7796956	302,2	30'	0,6326622	379,3	0,7821984	305,5	30'	0,6228983	378,4	0,7796956	302,2
30'	0,6230128	378,3	0,7796060	302,3	30'	0,6327770	379,3	0,7823132	305,6	30'	0,6230128	378,3	0,7796060	302,3
30'	0,6231273	378,2	0,7795164	302,4	30'	0,6328918	379,3	0,7824280	305,7	30'	0,6231273	378,2	0,7795164	302,4
30'	0,6232418	378,1	0,7794268	302,5	30'	0,6330066	379,3	0,7825428	305,8	30'	0,6232418	378,1	0,7794268	302,5
30'	0,6233563	378,0	0,7793372	302,6	30'	0,6331214	379,3	0,7826576	305,9	30'	0,6233563	378,0	0,7793372	302,6
30'	0,6234708	377,9	0,7792476	302,7	30'	0,6332362	379,3	0,7827724	306,0	30'	0,6234708	377,9	0,7792476	302,7
30'	0,6235853	377,8	0,7791580	302,8	30'	0,6333510	379,3	0,7828872	306,1	30'	0,6235853	377,8	0,7791580	302,8
30'	0,6236998	377,7	0,7790684	302,9	30'	0,6334658	379,3	0,7830020	306,2	30'	0,6236998	377,7	0,7790684	302,9
30'	0,6238143	377,6	0,7789788	303,0	30'	0,6335806	379,3	0,7831168	306,3	30'	0,6238143	377,6	0,7789788	303,0
30'	0,6239288	377,5	0,7788892	303,1	30'	0,6336954	379,3	0,7832316	306,4	30'	0,6239288	377,5	0,7788892	303,1
30'	0,6240433	377,4	0,7788000	303,2	30'	0,6338102	379,3	0,7833464	306,5	30'	0,6240433	377,4	0,7788000	303,2
30'	0,6241578	377,3	0,7787104	303,3	30'	0,6339250	379,3	0,7834612	306,6	30'	0,6241578	377,3	0,7787104	303,3
30'	0,6242723	377,2	0,7786208	303,4	30'	0,6340398	379,3	0,7835760	306,7	30'	0,6242723	377,2	0,7786208	303,4
30'	0,6243868	377,1	0,7785312	303,5	30'	0,6341546	379,3	0,7836908	306,8	30'	0,6243868	377,1	0,7785312	303,5
30'	0,6245013	377,0	0,7784416	303,6	30'	0,6342694	379,3	0,7838056	306,9	30'	0,6245013	377,0	0,7784416	303,6
30'	0,6246158	376,9	0,7783520	303,7	30'	0,6343842	379,3	0,7839204	307,0	30'	0,6246158	376,9	0,7783520	303,7
30'	0,6247303	376,8	0,7782624	303,8	30'	0,6344990	379,3	0,7840352	307,1	30'	0,6247303	376,8	0,7782624	303,8
30'	0,6248448	376,7	0,7781728	303,9	30'	0,6346138	379,3	0,7841500	307,2	30'	0,6248448	376,7	0,7781728	303,9
30'	0,6249593	376,6	0,7780832	304,0	30'	0,6347286	379,3	0,7842648	307,3	30'	0,6249593	376,6	0,7780832	304,0
30'	0,6250738	376,5	0,7779936	304,1	30'	0,6348434	379,3	0,7843796	307,4	30'	0,6250738	376,5	0,7779936	304,1
30'	0,6251883	376,4	0,7779040	304,2	30'	0,6349582	379,3	0,7844944	307,5	30'	0,6251883	376,4	0,7779040	304,2
30'	0,6253028	376,3	0,7778144	304,3	30'	0,6350730	379,3	0,7846092	307,6	30'	0,6253028	376,3	0,7778144	304,3
30'	0,6254173	376,2	0,7777248	304,4	30'	0,6351878	379,3	0,7847240	307,7	30'	0,6254173	376,2	0,7777248	304,4
30'	0,6255318	376,1	0,7776352	304,5	30'	0,6353026	379,3	0,7848388	307,8	30'	0,6255318	376,1	0,7776352	304,5
30'	0,6256463	376,0	0,7775456	304,6	30'	0,6354174	379,3	0,7849536	307,9	30'	0,6256463	376,0	0,7775456	304,6
30'	0,6257608	375,9	0,7774560	304,7	30'	0,6355322	379,3	0,7850684	308,0	30'	0,6257608	375,9	0,7774560	304,7
30'	0,6258753	375,8	0,7773664	304,8	30'	0,6356470	379,3	0,7851832	308,1	30'	0,6258753	375,8	0,7773664	304,8
30'	0,6259898	375,7	0,7772768	304,9	30'	0,6357618	379,3	0,7852980	308,2	30'	0,6259898	375,7	0,7772768	304,9
30'	0,6261043	375,6	0,7771872	305,0	30'	0,6358766	379,3	0,7854128	308,3	30'	0,6261043	375,6	0,7771872	305,0
30'	0,6262188	375,5	0,7770976	305,1	30'	0,6359914	379,3	0,7855276	308,4	30'	0,6262188	375,5	0,7770976	305,1
30'	0,6263333	375,4	0,7770080	305,2	30'	0,6361062	379,3	0,7856424	308,5	30'	0,6263333	375,4	0,7770080	305,2
30'	0,6264478	375,3	0,7769184	305,3	30'	0,6362210	379,3	0,7857572	308,6	30'	0,6264478	375,3	0,7769184	305,3
30'	0,6265623	375,2	0,7768288	305,4	30'	0,6363358	379,3	0,7858720	308,7	30'	0,6265623	375,2	0,7768288	305,4
30'	0,6266768	375,1	0,7767392	305,5	30'	0,6364506	379,3	0,7859868	308,8	30'	0,6266768	375,1	0,7767392	305,5
30'	0,6267913	375,0	0,7766496	305,6										

39 deg.

	sin.	diff. 10'	co-sin.	diff. 10'			sin.	diff. 10'	co-sin.	diff. 10'
0	0,6293204		0,7771460		60	30'	0,6360782		0,7715346	
30	0,6294334	376,7	0,7769540	305,8	30	30'	0,6361904	374,0	0,7713321	308,5
1	0,6295464		0,7767620		50	31'	0,6363026		0,7711305	
2	0,6296594		0,7765700	305,3	30	32'	0,6364148		0,7709280	308,6
3	0,6297724	376,6	0,7763777	58'	30'	33'	0,6365270	373,9	0,7707254	308,7
4	0,6298854	376,5	0,7761851	305,4	30	34'	0,6366392	373,8	0,7705229	308,8
5	0,6299983		0,7759925	305,5	30	35'	0,6367513		0,7703203	308,9
6	0,6301113		0,7758000	305,6	30	36'	0,6368634		0,7701178	309,0
7	0,6302242	376,4	0,7756074	305,7	30	37'	0,6369755	373,7	0,7699152	309,1
8	0,6303371	376,3	0,7754148	305,8	30	38'	0,6370876	373,6	0,7697127	309,2
9	0,6304500		0,7752222		30	39'	0,6371997		0,7695101	309,3
10	0,6305629		0,7750296	305,8	30	40'	0,6373118	373,5	0,7693076	309,4
11	0,6306758	376,2	0,7748370	305,9	30	41'	0,6374239	373,4	0,7691050	309,5
12	0,6307887		0,7746444		30	42'	0,6375360	373,3	0,7689025	309,6
13	0,6309015		0,7744518	305,9	30	43'	0,6376481	373,2	0,7687000	309,7
14	0,6310144	376,1	0,7742592	306,0	30	44'	0,6377602		0,7684975	309,8
15	0,6311273	376,0	0,7740666	306,1	30	45'	0,6378723		0,7682950	309,9
16	0,6312402		0,7738740	306,2	30	46'	0,6379844		0,7680925	310,0
17	0,6313531	375,9	0,7736814	306,3	30	47'	0,6380965	373,1	0,7678900	310,1
18	0,6314660	375,8	0,7734888	306,4	30	48'	0,6382086	373,0	0,7676875	310,2
19	0,6315789		0,7732962	306,5	30	49'	0,6383207		0,7674850	310,3
20	0,6316918		0,7731036		30	50'	0,6384328	372,9	0,7672825	310,4
21	0,6318047	375,7	0,7729110	306,5	30	51'	0,6385449	372,8	0,7670800	310,5
22	0,6319176		0,7727184		30	52'	0,6386570		0,7668775	310,6
23	0,6320305		0,7725258	306,6	30	53'	0,6387691	372,7	0,7666750	310,7
24	0,6321434	375,6	0,7723332	306,7	30	54'	0,6388812	372,6	0,7664725	310,8
25	0,6322563	375,5	0,7721406	306,8	30	55'	0,6389933	372,5	0,7662700	310,9
26	0,6323692		0,7719480		30	56'	0,6391054		0,7660675	311,0
27	0,6324821		0,7717554	306,8	30	57'	0,6392175	372,4	0,7658650	311,1
28	0,6325950	375,4	0,7715628	306,9	30	58'	0,6393296	372,3	0,7656625	311,2
29	0,6327079	375,3	0,7713702	307,0	30	59'	0,6394417	372,2	0,7654600	311,3
30	0,6328208		0,7711776		30	60'	0,6395538		0,7652575	311,4
31	0,6329337		0,7709850	307,1	30	61'	0,6396659	372,1	0,7650550	311,5
32	0,6330466	375,2	0,7707924	307,2	30	62'	0,6397780	372,0	0,7648525	311,6
33	0,6331595		0,7705998		30	63'	0,6398901		0,7646500	311,7
34	0,6332724		0,7704072	307,3	30	64'	0,6399999	371,9	0,7644475	311,8
35	0,6333853	374,9	0,7702146	307,4	30	65'	0,6401120	371,8	0,7642450	311,9
36	0,6334982	374,8	0,7700220	307,5	30	66'	0,6402241		0,7640425	312,0
37	0,6336111		0,7698294		30	67'	0,6403362		0,7638400	312,1
38	0,6337240		0,7696368	307,6	30	68'	0,6404483	371,7	0,7636375	312,2
39	0,6338369	374,6	0,7694442	307,7	30	69'	0,6405604	371,6	0,7634350	312,3
40	0,6339498	374,5	0,7692516	307,8	30	70'	0,6406725		0,7632325	312,4
41	0,6340627		0,7690590		30	71'	0,6407846	371,5	0,7630300	312,5
42	0,6341756		0,7688664	307,9	30	72'	0,6408967	371,4	0,7628275	312,6
43	0,6342885	374,4	0,7686738	308,0	30	73'	0,6410088		0,7626250	312,7
44	0,6344014	374,3	0,7684812	308,1	30	74'	0,6411209		0,7624225	312,8
45	0,6345143		0,7682886	308,2	30	75'	0,6412330	371,3	0,7622200	312,9
46	0,6346272		0,7680960		30	76'	0,6413451		0,7620175	313,0
47	0,6347401		0,7679034	308,3	30	77'	0,6414572	371,2	0,7618150	313,1
48	0,6348530	374,2	0,7677108	308,4	30	78'	0,6415693	371,1	0,7616125	313,2
49	0,6349659	374,1	0,7675182		30	79'	0,6416814		0,7614100	313,3
50	0,6350788		0,7673256	308,5	30	80'	0,6417935	371,0	0,7612075	313,4
51	0,6351917		0,7671330		30	81'	0,6419056		0,7610050	313,5
52	0,6353046		0,7669404	308,6	30	82'	0,6420177		0,7608025	313,6
53	0,6354175		0,7667478		30	83'	0,6421298	370,9	0,7606000	313,7
54	0,6355304	374,0	0,7665552	308,7	30	84'	0,6422419	370,8	0,7603975	313,8
55	0,6356433	373,9	0,7663626	308,8	30	85'	0,6423540		0,7601950	313,9
56	0,6357562		0,7661700		30	86'	0,6424661		0,7599925	314,0
57	0,6358691		0,7659774	308,9	30	87'	0,6425782	370,7	0,7597900	314,1
58	0,6359820	373,8	0,7657848	309,0	30	88'	0,6426903	370,6	0,7595875	314,2
59	0,6360949	373,7	0,7655922	309,1	30	89'	0,6428024		0,7593850	314,3
60	0,6362078		0,7653996		30	90'	0,6429145	370,5	0,7591825	314,4
61	0,6363207		0,7652070	309,2	30	91'	0,6430266		0,7589800	314,5
62	0,6364336		0,7650144		30	92'	0,6431387		0,7587775	314,6
63	0,6365465	374,0	0,7648218	309,3	30	93'	0,6432508	370,4	0,7585750	314,7
64	0,6366594	373,9	0,7646292	309,4	30	94'	0,6433629		0,7583725	314,8
65	0,6367723		0,7644366		30	95'	0,6434750		0,7581700	314,9
66	0,6368852		0,7642440	309,5	30	96'	0,6435871	370,3	0,7579675	315,0
67	0,6369981	373,8	0,7640514	309,6	30	97'	0,6436992		0,7577650	315,1
68	0,6371110	373,7	0,7638588	309,7	30	98'	0,6438113		0,7575625	315,2
69	0,6372239		0,7636662		30	99'	0,6439234	370,2	0,7573600	315,3
70	0,6373368		0,7634736	309,8	30	100'	0,6440355		0,7571575	315,4
71	0,6374497		0,7632810		30	101'	0,6441476		0,7569550	315,5
72	0,6375626		0,7630884	309,9	30	102'	0,6442597		0,7567525	315,6
73	0,6376755		0,7628958		30	103'	0,6443718		0,7565500	315,7
74	0,6377884		0,7627032	310,0	30	104'	0,6444839		0,7563475	315,8
75	0,6379013		0,7625106		30	105'	0,6445960		0,7561450	315,9
76	0,6380142		0,7623180	310,1	30	106'	0,6447081		0,7559425	316,0
77	0,6381271		0,7621254		30	107'	0,6448202		0,7557400	316,1
78	0,6382400		0,7619328	310,2	30	108'	0,6449323		0,7555375	316,2
79	0,6383529		0,7617402		30	109'	0,6450444		0,7553350	316,3
80	0,6384658		0,7615476	310,3	30	110'	0,6451565		0,7551325	316,4
81	0,6385787		0,7613550		30	111'	0,6452686		0,7549300	316,5
82	0,6386916		0,7611624	310,4	30	112'	0,6453807		0,7547275	316,6
83	0,6388045		0,7609698		30	113'	0,6454928		0,7545250	316,7
84	0,6389174		0,7607772	310,5	30	114'	0,6456049		0,7543225	316,8
85	0,6390303		0,7605846		30	115'	0,6457170		0,7541200	316,9
86	0,6391432		0,7603920	310,6	30	116'	0,6458291		0,7539175	317,0
87	0,6392561		0,7601994		30	117'	0,6459412		0,7537150	317,1
88	0,6393690		0,7599999	310,7	30	118'	0,6460533		0,7535125	317,2
89	0,6394819		0,7598073		30	119'	0,6461654		0,7533100	317,3
90	0,6395948		0,7596147	310,8	30	120'	0,6462775		0,7531075	317,4
91	0,6397077		0,7594221		30	121'	0,6463896		0,7529050	317,5
92	0,6398206		0,7592295	310,9	30	122'	0,6465017		0,7527025	317,6
93	0,6399335		0,7590369		30	123'	0,6466138		0,7525000	317,7
94	0,6400464		0,7588443	311,0	30	124'	0,6467259		0,7522975	317,8
95	0,6401593		0,7586517		30	125'	0,6468380		0,7520950	317,9
96	0,6402722		0,7584591	311,1	30	126'	0,6469501		0,7518925	318,0
97	0,6403851		0,7582665		30	127'	0,6470622		0,7516900	318,1
98	0,6404980		0,7580739	311,2	30	128'	0,6471743		0,7514875	318,2
99	0,6406109		0,7578813		30	129'	0,6472864		0,7512850	318,3
100	0,6407238		0,7576887	311,3	30	130'	0,6473985		0,7510825	318,4
101	0,6408367		0,7574961		30	131'	0,6475106		0,7508800	318,5
102	0,6409496		0,7573035	311,4	30	132'	0,6476227		0,7506775	318,6
103	0,6410625		0,7571109		30	133'	0,6477348		0,7504750	318,7
104	0,6411754		0,7569183	311,5	30	134'	0,6478469		0,7502725	318,8
105	0,6412883		0,7567257		30	135'	0,6479590		0,7500700	318,9
106	0,6414012		0,7565331	311,6	30	136'	0,6480711		0,7498675	319,0
107	0,6415141									

40 deg.

	sin.	diff. 10'	co-sin.	diff. 10'		sin.	diff. 10'	co-sin.	diff. 10'		sin.	diff. 10'	co-sin.	diff. 10'		sin.	diff. 10'	co-sin.	diff. 10'
0'	0,6467875		0,7650444		60'	0,6494480		0,7630460		30'	0,6521085		0,7610476		0'	0,6547690		0,7590492	
30'	0,6468290		0,7650594		30'	0,6495895		0,7629875		27'	0,6522500		0,7609881		27'	0,6549105		0,7589907	
1'	0,6468704		0,7650744		1'	0,6497310		0,7629290		24'	0,6523915		0,7609296		24'	0,6550520		0,7589322	
2'	0,6469119		0,7650894		2'	0,6498725		0,7628705		21'	0,6525330		0,7608711		21'	0,6551935		0,7588737	
3'	0,6469533		0,7651044		3'	0,6499140		0,7628120		18'	0,6526745		0,7608126		18'	0,6553350		0,7588152	
4'	0,6469948		0,7651194		4'	0,6500555		0,7627535		15'	0,6528160		0,7607541		15'	0,6554765		0,7587567	
5'	0,6470362		0,7651344		5'	0,6501970		0,7626950		12'	0,6529575		0,7606956		12'	0,6556180		0,7586982	
6'	0,6470777		0,7651494		6'	0,6503385		0,7626365		9'	0,6530990		0,7606371		9'	0,6557595		0,7586397	
7'	0,6471191		0,7651644		7'	0,6504800		0,7625780		6'	0,6532405		0,7605786		6'	0,6559010		0,7585812	
8'	0,6471606		0,7651794		8'	0,6506215		0,7625195		3'	0,6533820		0,7605201		3'	0,6560425		0,7585227	
9'	0,6472020		0,7651944		9'	0,6507630		0,7624610		0'	0,6535235		0,7604616		0'	0,6561840		0,7584642	
10'	0,6472435		0,7652094		10'	0,6509045		0,7624025		31'	0,6536650		0,7604031		31'	0,6563255		0,7584057	
11'	0,6472849		0,7652244		11'	0,6510460		0,7623440		28'	0,6538065		0,7603446		28'	0,6564670		0,7583472	
12'	0,6473264		0,7652394		12'	0,6511875		0,7622855		25'	0,6539480		0,7602861		25'	0,6566085		0,7582887	
13'	0,6473678		0,7652544		13'	0,6513290		0,7622270		22'	0,6540895		0,7602276		22'	0,6567500		0,7582302	
14'	0,6474093		0,7652694		14'	0,6514705		0,7621685		19'	0,6542310		0,7601691		19'	0,6568915		0,7581717	
15'	0,6474507		0,7652844		15'	0,6516120		0,7621100		16'	0,6543725		0,7601106		16'	0,6570330		0,7581132	
16'	0,6474922		0,7652994		16'	0,6517535		0,7620515		13'	0,6545140		0,7600521		13'	0,6571745		0,7580547	
17'	0,6475336		0,7653144		17'	0,6518950		0,7619930		10'	0,6546555		0,7599936		10'	0,6573160		0,7579962	
18'	0,6475751		0,7653294		18'	0,6520365		0,7619345		7'	0,6547970		0,7599351		7'	0,6574575		0,7579377	
19'	0,6476165		0,7653444		19'	0,6521780		0,7618760		4'	0,6549385		0,7598766		4'	0,6575990		0,7578792	
20'	0,6476580		0,7653594		20'	0,6523195		0,7618175		1'	0,6550800		0,7598181		1'	0,6577405		0,7578207	
21'	0,6476994		0,7653744		21'														

49 deg.

41 deg

	sin.	diff. 10'	co-sin.	diff. 10'		sin.	diff. 10'	co-sin.	diff. 10'		sin.	diff. 10'	co-sin.	diff. 10'
0	0,5560590	365,8	0,7547096	318,2	60	0,6662000	363,0	0,7480587	321,3	30	0,6662000	363,0	0,7480587	321,3
1	0,5561688		0,7546141		30	0,6662729		0,7480587		29	0,6662729		0,7480587	
2	0,5562785		0,7545187		50	0,6663458		0,7480587		28	0,6663458		0,7480587	
3	0,5563882		0,7544232		30	0,6664188		0,7480587		27	0,6664188		0,7480587	
4	0,5564979		0,7543278		50	0,6664917		0,7480587		26	0,6664917		0,7480587	
5	0,5566076	365,7	0,7542323	318,3	30	0,6665646		0,7480587		25	0,6665646		0,7480587	
6	0,5567173	365,6	0,7541368	318,4	50	0,6666375		0,7480587		24	0,6666375		0,7480587	
7	0,5568270	365,5	0,7540413	318,5	30	0,6667104		0,7480587		23	0,6667104		0,7480587	
8	0,5569367		0,7539458		50	0,6667833		0,7480587		22	0,6667833		0,7480587	
9	0,5570464	365,4	0,7538503	318,6	30	0,6668562		0,7480587		21	0,6668562		0,7480587	
10	0,5571561	365,3	0,7537548	318,7	50	0,6669291		0,7480587		20	0,6669291		0,7480587	
11	0,5572658		0,7536593		30	0,6670020		0,7480587		19	0,6670020		0,7480587	
12	0,5573755		0,7535638		50	0,6670749		0,7480587		18	0,6670749		0,7480587	
13	0,5574852	365,2	0,7534683	318,8	30	0,6671478		0,7480587		17	0,6671478		0,7480587	
14	0,5575949		0,7533728		50	0,6672207		0,7480587		16	0,6672207		0,7480587	
15	0,5577046		0,7532773		30	0,6672936		0,7480587		15	0,6672936		0,7480587	
16	0,5578143	365,1	0,7531818	318,9	50	0,6673665		0,7480587		14	0,6673665		0,7480587	
17	0,5579240	365,0	0,7530863	319,0	30	0,6674394		0,7480587		13	0,6674394		0,7480587	
18	0,5580337		0,7529908		50	0,6675123		0,7480587		12	0,6675123		0,7480587	
19	0,5581434		0,7528953		30	0,6675852		0,7480587		11	0,6675852		0,7480587	
20	0,5582531	364,9	0,7527998	319,1	50	0,6676581		0,7480587		10	0,6676581		0,7480587	
21	0,5583628	364,8	0,7527043	319,2	30	0,6677310		0,7480587		9	0,6677310		0,7480587	
22	0,5584725	364,8	0,7526088	319,3	50	0,6678039		0,7480587		8	0,6678039		0,7480587	
23	0,5585822	364,7	0,7525133	319,4	30	0,6678768		0,7480587		7	0,6678768		0,7480587	
24	0,5586919		0,7524178		50	0,6679497		0,7480587		6	0,6679497		0,7480587	
25	0,5588016	364,6	0,7523223	319,5	30	0,6680226		0,7480587		5	0,6680226		0,7480587	
26	0,5589113	364,5	0,7522268	319,6	50	0,6680955		0,7480587		4	0,6680955		0,7480587	
27	0,5590210		0,7521313		30	0,6681684		0,7480587		3	0,6681684		0,7480587	
28	0,5591307		0,7520358		50	0,6682413		0,7480587		2	0,6682413		0,7480587	
29	0,5592404	364,4	0,7519403	319,7	30	0,6683142		0,7480587		1	0,6683142		0,7480587	
30	0,5593501		0,7518448		50	0,6683871		0,7480587		0	0,6683871		0,7480587	
31	0,5594598		0,7517493		30	0,6684600		0,7480587						
32	0,5595695	364,3	0,7516538	319,8	50	0,6685329		0,7480587						
33	0,5596792		0,7515583		30	0,6686058		0,7480587						
34	0,5597889		0,7514628		50	0,6686787		0,7480587						
35	0,5598986	364,2	0,7513673	319,9	30	0,6687516		0,7480587						
36	0,5599983	364,1	0,7512718	320,0	50	0,6688245		0,7480587						
37	0,5601080		0,7511763		30	0,6688974		0,7480587						
38	0,5602177		0,7510808		50	0,6689703		0,7480587						
39	0,5603274	364,0	0,7509853	320,1	30	0,6690432		0,7480587						
40	0,5604371		0,7508898		50	0,6691161		0,7480587						
41	0,5605468	363,9	0,7507943	320,2	30	0,6691890		0,7480587						
42	0,5606565	363,8	0,7506988	320,3	50	0,6692619		0,7480587						
43	0,5607662		0,7506033		30	0,6693348		0,7480587						
44	0,5608759		0,7505078		50	0,6694077		0,7480587						
45	0,5609856	363,7	0,7504123	320,4	30	0,6694806		0,7480587						
46	0,5610953	363,6	0,7503168	320,5	50	0,6695535		0,7480587						
47	0,5612050		0,7502213		30	0,6696264		0,7480587						
48	0,5613147		0,7501258		50	0,6696993		0,7480587						
49	0,5614244	363,5	0,7500303	320,6	30	0,6697722		0,7480587						
50	0,5615341	363,4	0,7499348	320,7	50	0,6698451		0,7480587						
51	0,5616438		0,7498393		30	0,6699180		0,7480587						
52	0,5617535		0,7497438		50	0,6699909		0,7480587						
53	0,5618632	363,3	0,7496483	320,8	30	0,6700638		0,7480587						
54	0,5619729	363,2	0,7495528	320,9	50	0,6701367		0,7480587						
55	0,5620826		0,7494573		30	0,6702096		0,7480587						
56	0,5621923		0,7493618		50	0,6702825		0,7480587						
57	0,5623020	363,1	0,7492663	321,0	30	0,6703554		0,7480587						
58	0,5624117	363,0	0,7491708	321,1	50	0,6704283		0,7480587						
59	0,5625214		0,7490753		30	0,6705012		0,7480587						
60	0,5626311		0,7489798		50	0,6705741		0,7480587						
61	0,5627408	362,9	0,7488843	321,2	30	0,6706470		0,7480587						
62	0,5628505	362,8	0,7487888	321,3	50	0,6707200		0,7480587						
63	0,5629602		0,7486933		30	0,6707929		0,7480587						
64	0,5630699		0,7485978		50	0,6708658		0,7480587						
65	0,5631796	362,7	0,7485023	321,4	30	0,6709387		0,7480587						
66	0,5632893	362,6	0,7484068	321,5	50	0,6710116		0,7480587						
67	0,5633990		0,7483113		30	0,6710845		0,7480587						
68	0,5635087	362,5	0,7482158	321,6	50	0,6711574		0,7480587						
69	0,5636184		0,7481203		30	0,6712303		0,7480587						
70	0,5637281		0,7480248		50	0,6713032		0,7480587						
71	0,5638378	362,3	0,7479293	321,7	30	0,6713761		0,7480587						
72	0,5639475	362,2	0,7478338	321,8	50	0,6714490		0,7480587						
73	0,5640572		0,7477383		30	0,6715219		0,7480587						
74	0,5641669		0,7476428		50	0,6715948		0,7480587						
75	0,5642766	362,1	0,7475473	321,9	30	0,6716677		0,7480587						
76	0,5643863	362,0	0,7474518	322,0	50	0,6717406		0,7480587						
77	0,5644960		0,7473563		30	0,6718135		0,7480587						
78	0,5646057		0,7472608		50	0,6718864		0,7480587						
79	0,5647154	361,9	0,7471653	322,1	30	0,6719593		0,7480587						
80	0,5648251	361,8	0,7470698	322,2	50	0,6720322		0,7480587						
81	0,5649348		0,7469743		30	0,6721051		0,7480587						
82	0,5650445		0,7468788		50	0,6721780		0,7480587						
83	0,5651542	361,7	0,7467833	322,3	30	0,6722509		0,7480587						
84	0,5652639	361,6	0,7466878	322,4	50	0,6723238		0,7480587						
85	0,5653736		0,7465923		30	0,6723967		0,7480587						
86	0,5654833		0,7464968		50	0,6724696		0,7480587						
87	0,5655930	361,5	0,7464013	322,5	30	0,6725425		0,7480587						
88	0,5657027	361,4	0,7463058	322,6	50	0,6726154		0,7480587						
89	0,5658124		0,7462103		30	0,6726883		0,7480587						
90	0,5659221		0,7461148		50	0,6727612		0,7480587						
91	0,5660318	361,3	0,7460193	322,7	30	0,6728341		0,7480587						
92	0,5661415	361,2	0,7459238	322,8	50	0,6729070		0,7480587						
93	0,5662512		0,7458283		30	0,6729799		0,7480587						
94	0,5663609		0,7457328		50	0,6730528		0,7480587						
95	0,5664706	361,1	0,7456373	322,9	30	0,6731257		0,7480587						
96	0,5665803	361,0	0,7455418	323,0	50	0,6731986		0,7480587						
97	0,5666900		0,7454463		30	0,6732715		0,7480587						
98	0,5668000		0,7453508		50	0,6733444		0,7480587						
99	0,5669100		0,7452553		30	0,6734173								

42 deg.

	sin.	diff. 10''	co-sin.	diff. 10''			sin.	diff. 10''	co-sin.	diff. 10''			sin.	diff. 10''	co-sin.	diff. 10''
0'	0,6591306		0,7431448		50'	30'	0,6755902		0,7377773		30'	30'	0,6755902		0,7377773	
1'	0,6592387	369,2	0,7430475	364,5	51'	31'	0,6756974	367,3	0,7376791	367,6	31'	31'	0,6756974	367,3	0,7376791	367,6
2'	0,6593468		0,7429501		52'	32'	0,6758045		0,7375808		32'	32'	0,6758045		0,7375808	
3'	0,6594548	369,1	0,7428528	364,6	53'	33'	0,6759118	367,2	0,7374825	367,7	33'	33'	0,6759118	367,2	0,7374825	367,7
4'	0,6595628	369,0	0,7427554	364,7	54'	34'	0,6760190		0,7373842		34'	34'	0,6760190		0,7373842	
5'	0,6596709		0,7426580		55'	35'	0,6761262		0,7372859		35'	35'	0,6761262		0,7372859	
6'	0,6597789	369,0	0,7425606	364,8	56'	36'	0,6762333	367,1	0,7371875	367,8	36'	36'	0,6762333	367,1	0,7371875	367,8
7'	0,6598869		0,7424632		57'	37'	0,6763405		0,7370892		37'	37'	0,6763405		0,7370892	
8'	0,6599949	369,9	0,7423657	364,9	58'	38'	0,6764476	367,0	0,7369909	367,9	38'	38'	0,6764476	367,0	0,7369909	367,9
9'	0,6601028	369,8	0,7422683	365,0	59'	39'	0,6765547		0,7368926		39'	39'	0,6765547		0,7368926	
10'	0,6602108		0,7421708		60'	40'	0,6766618		0,7367943		40'	40'	0,6766618		0,7367943	
11'	0,6603187	369,7	0,7420732	365,1	61'	41'	0,6767689	366,9	0,7366960	368,0	41'	41'	0,6767689	366,9	0,7366960	368,0
12'	0,6604266		0,7419758		62'	42'	0,6768760		0,7365977		42'	42'	0,6768760		0,7365977	
13'	0,6605345	369,6	0,7418783	365,2	63'	43'	0,6769831	366,8	0,7364994	368,1	43'	43'	0,6769831	366,8	0,7364994	368,1
14'	0,6606424		0,7417808		64'	44'	0,6770902		0,7364011		44'	44'	0,6770902		0,7364011	
15'	0,6607503	369,6	0,7416833	365,3	65'	45'	0,6771973	366,7	0,7363028	368,2	45'	45'	0,6771973	366,7	0,7363028	368,2
16'	0,6608582	369,5	0,7415857	365,4	66'	46'	0,6773044		0,7362045		46'	46'	0,6773044		0,7362045	
17'	0,6609661	369,4	0,7414881	365,5	67'	47'	0,6774115	366,6	0,7361062	368,3	47'	47'	0,6774115	366,6	0,7361062	368,3
18'	0,6610740	369,3	0,7413905	365,6	68'	48'	0,6775186		0,7360079		48'	48'	0,6775186		0,7360079	
19'	0,6611819		0,7412929		69'	49'	0,6776257	366,5	0,7359096	368,4	49'	49'	0,6776257	366,5	0,7359096	368,4
20'	0,6612898	369,2	0,7411953	365,7	70'	50'	0,6777328		0,7358113		50'	50'	0,6777328		0,7358113	
21'	0,6613977		0,7410977		71'	51'	0,6778399	366,4	0,7357130	368,5	51'	51'	0,6778399	366,4	0,7357130	368,5
22'	0,6615056	369,1	0,7410000	365,8	72'	52'	0,6779470		0,7356147		52'	52'	0,6779470		0,7356147	
23'	0,6616135	369,0	0,7409023	365,9	73'	53'	0,6780541	366,3	0,7355164	368,6	53'	53'	0,6780541	366,3	0,7355164	368,6
24'	0,6617214		0,7408046		74'	54'	0,6781612		0,7354181		54'	54'	0,6781612		0,7354181	
25'	0,6618293	368,9	0,7407069	366,0	75'	55'	0,6782683	366,2	0,7353198	368,7	55'	55'	0,6782683	366,2	0,7353198	368,7
26'	0,6619372	368,8	0,7406092	366,1	76'	56'	0,6783754		0,7352215		56'	56'	0,6783754		0,7352215	
27'	0,6620451		0,7405115		77'	57'	0,6784825	366,1	0,7351232	368,8	57'	57'	0,6784825	366,1	0,7351232	368,8
28'	0,6621530	368,7	0,7404138	366,2	78'	58'	0,6785896		0,7350249		58'	58'	0,6785896		0,7350249	
29'	0,6622609	368,6	0,7403161	366,3	79'	59'	0,6786967	366,0	0,7349266	368,9	59'	59'	0,6786967	366,0	0,7349266	368,9
30'	0,6623688		0,7402184		80'	60'	0,6788038		0,7348283		60'	60'	0,6788038		0,7348283	
31'	0,6624767	368,5	0,7401207	366,4	81'	61'	0,6789109	365,9	0,7347300	369,0	61'	61'	0,6789109	365,9	0,7347300	369,0
32'	0,6625846	368,4	0,7400230	366,5	82'	62'	0,6790180		0,7346317		62'	62'	0,6790180		0,7346317	
33'	0,6626925		0,7399253		83'	63'	0,6791251	365,8	0,7345334	369,1	63'	63'	0,6791251	365,8	0,7345334	369,1
34'	0,6628004	368,3	0,7398276	366,6	84'	64'	0,6792322		0,7344351		64'	64'	0,6792322		0,7344351	
35'	0,6629083	368,2	0,7397299	366,7	85'	65'	0,6793393	365,7	0,7343368	369,2	65'	65'	0,6793393	365,7	0,7343368	369,2
36'	0,6630162		0,7396322		86'	66'	0,6794464		0,7342385		66'	66'	0,6794464		0,7342385	
37'	0,6631241	368,1	0,7395345	366,8	87'	67'	0,6795535	365,6	0,7341402	369,3	67'	67'	0,6795535	365,6	0,7341402	369,3
38'	0,6632320	368,0	0,7394368	366,9	88'	68'	0,6796606		0,7340419		68'	68'	0,6796606		0,7340419	
39'	0,6633399		0,7393391		89'	69'	0,6797677	365,5	0,7339436	369,4	69'	69'	0,6797677	365,5	0,7339436	369,4
40'	0,6634478	367,9	0,7392414	367,0	90'	70'	0,6798748		0,7338453		70'	70'	0,6798748		0,7338453	
41'	0,6635557	367,8	0,7391437	367,1	91'	71'	0,6799819	365,4	0,7337470	369,5	71'	71'	0,6799819	365,4	0,7337470	369,5
42'	0,6636636	367,7	0,7390460	367,2	92'	72'	0,6800890		0,7336487		72'	72'	0,6800890		0,7336487	
43'	0,6637715		0,7389483		93'	73'	0,6801961	365,3	0,7335504	369,6	73'	73'	0,6801961	365,3	0,7335504	369,6
44'	0,6638794	367,6	0,7388506	367,3	94'	74'	0,6803032		0,7334521		74'	74'	0,6803032		0,7334521	
45'	0,6639873	367,5	0,7387529	367,4	95'	75'	0,6804103	365,2	0,7333538	369,7	75'	75'	0,6804103	365,2	0,7333538	369,7
46'	0,6640952		0,7386552		96'	76'	0,6805174		0,7332555		76'	76'	0,6805174		0,7332555	
47'	0,6642031	367,4	0,7385575	367,5	97'	77'	0,6806245	365,1	0,7331572	369,8	77'	77'	0,6806245	365,1	0,7331572	369,8
48'	0,6643110	367,3	0,7384598	367,6	98'	78'	0,6807316		0,7330589		78'	78'	0,6807316		0,7330589	
49'	0,6644189		0,7383621		99'	79'	0,6808387	365,0	0,7329606	369,9	79'	79'	0,6808387	365,0	0,7329606	369,9
50'	0,6645268	367,2	0,7382644	367,7	100'	80'	0,6809458		0,7328623		80'	80'	0,6809458		0,7328623	
51'	0,6646347	367,1	0,7381667	367,8												
52'	0,6647426		0,7380690													
53'	0,6648505	367,0	0,7379713	367,9												
54'	0,6649584	366,9	0,7378736	368,0												
55'	0,6650663		0,7377759													
56'	0,6651742	366,8	0,7376782	368,1												
57'	0,6652821	366,7	0,7375805	368,2												
58'	0,6653900		0,7374828													
59'	0,6654979	366,6	0,7373851	368,3												
60'	0,6656058	366,5	0,7372874	368,4												
61'	0,6657137		0,7371897													
62'	0,6658216	366,4	0,7370920	368,5												
63'	0,6659295	366,3	0,7369943	368,6												
64'	0,6660374		0,7368966													
65'	0,6661453	366,2	0,7367989	368,7												
66'	0,6662532	366,1	0,7367012	368,8												
67'	0,6663611		0,7366035													
68'	0,6664690	366,0	0,7365058	368,9												
69'	0,6665769	365,9	0,7364081	369,0												
70'	0,6666848		0,7363104													
71'	0,6667927	365,8	0,7362127	369,1												
72'	0,6669006	365,7	0,7361150	369,2												
73'	0,6670085		0,7360173													
74'	0,6671164	365,6	0,7359196	369,3												
75'	0,6672243	365,5	0,7358219	369,4												
76'	0,6673322	365,4	0,7357242	369,5												
77'	0,6674401		0,7356265													
78'	0,6675480	365,3	0,7355288	369,6												
79'	0,6676559	365,2	0,7354311	369,7												
80'	0,6677638		0,7353334													
81'	0,6678717	365,1	0,7352357	369,8												
82'	0,6679796	365,0	0,7351380	369,9												
83'	0,6680875		0,7350403													
84'	0,6681954	364,9	0,7349426	369,0												
85'	0,6683033	364,8	0,7348449													

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	sin.	diff. 10'	co-sin.	diff. 10'			sin.	diff. 10'	co-sin.	diff. 10'			sin.	diff. 10'	co-sin.	diff. 10'			sin.	diff. 10'	co-sin.	diff. 10'			sin.	diff. 10'	co-sin.	diff. 10'			sin.	diff. 10'	co-sin.	diff. 10'
0'	0,6819984	354,5	0,7313537	330,7	60'	30'	0,6883546	351,7	0,7253744	333,8	30'	30'	0,6883546	351,7	0,7253744	333,8	30'	30'	0,6883546	351,7	0,7253744	333,8	30'	30'	0,6883546	351,7	0,7253744	333,8	30'	30'	0,6883546	351,7	0,7253744	333,8
1'	0,6821111	354,4	0,7311553	330,8	59'	31'	0,6885653	351,6	0,7251741	333,9	29'	31'	0,6885653	351,6	0,7251741	333,9	29'	31'	0,6885653	351,6	0,7251741	333,9	29'	31'	0,6885653	351,6	0,7251741	333,9	29'	31'	0,6885653	351,6	0,7251741	333,9
2'	0,6822374	354,3	0,7309568	330,9	58'	32'	0,6887765	351,5	0,7249738	334,0	28'	32'	0,6887765	351,5	0,7249738	334,0	28'	32'	0,6887765	351,5	0,7249738	334,0	28'	32'	0,6887765	351,5	0,7249738	334,0	28'	32'	0,6887765	351,5	0,7249738	334,0
3'	0,6823650		0,7307583	331,0	57'	33'	0,6889873	351,4	0,7247734	334,1	27'	33'	0,6889873	351,4	0,7247734	334,1	27'	33'	0,6889873	351,4	0,7247734	334,1	27'	33'	0,6889873	351,4	0,7247734	334,1	27'	33'	0,6889873	351,4	0,7247734	334,1
4'	0,6824926	354,2	0,7305590	331,1	56'	34'	0,6891981	351,3	0,7245729	334,2	26'	34'	0,6891981	351,3	0,7245729	334,2	26'	34'	0,6891981	351,3	0,7245729	334,2	26'	34'	0,6891981	351,3	0,7245729	334,2	26'	34'	0,6891981	351,3	0,7245729	334,2
5'	0,6826193	354,1	0,7303610	331,2	55'	35'	0,6894083	351,2	0,7243724	334,3	25'	35'	0,6894083	351,2	0,7243724	334,3	25'	35'	0,6894083	351,2	0,7243724	334,3	25'	35'	0,6894083	351,2	0,7243724	334,3	25'	35'	0,6894083	351,2	0,7243724	334,3
6'	0,6827466	354,0	0,7301623	331,3	54'	36'	0,6896183	351,1	0,7241715	334,4	24'	36'	0,6896183	351,1	0,7241715	334,4	24'	36'	0,6896183	351,1	0,7241715	334,4	24'	36'	0,6896183	351,1	0,7241715	334,4	24'	36'	0,6896183	351,1	0,7241715	334,4
7'	0,6828738	353,9	0,7299635	331,4	53'	37'	0,6898283	351,0	0,7239707	334,5	23'	37'	0,6898283	351,0	0,7239707	334,5	23'	37'	0,6898283	351,0	0,7239707	334,5	23'	37'	0,6898283	351,0	0,7239707	334,5	23'	37'	0,6898283	351,0	0,7239707	334,5
8'	0,6830013	353,8	0,7297646	331,5	52'	38'	0,6900383	350,9	0,7237698	334,6	22'	38'	0,6900383	350,9	0,7237698	334,6	22'	38'	0,6900383	350,9	0,7237698	334,6	22'	38'	0,6900383	350,9	0,7237698	334,6	22'	38'	0,6900383	350,9	0,7237698	334,6
9'	0,6831283	353,7	0,7295657	331,6	51'	39'	0,6902483	350,8	0,7235689	334,7	21'	39'	0,6902483	350,8	0,7235689	334,7	21'	39'	0,6902483	350,8	0,7235689	334,7	21'	39'	0,6902483	350,8	0,7235689	334,7	21'	39'	0,6902483	350,8	0,7235689	334,7
10'	0,6832553	353,6	0,7293667	331,7	50'	40'	0,6904583	350,7	0,7233680	334,8	20'	40'	0,6904583	350,7	0,7233680	334,8	20'	40'	0,6904583	350,7	0,7233680	334,8	20'	40'	0,6904583	350,7	0,7233680	334,8	20'	40'	0,6904583	350,7	0,7233680	334,8
11'	0,6833823	353,5	0,7291677	331,8	49'	41'	0,6906683	350,6	0,7231671	334,9	19'	41'	0,6906683	350,6	0,7231671	334,9	19'	41'	0,6906683	350,6	0,7231671	334,9	19'	41'	0,6906683	350,6	0,7231671	334,9	19'	41'	0,6906683	350,6	0,7231671	334,9
12'	0,6835093	353,4	0,7289686	331,9	48'	42'	0,6908783	350,5	0,7229662	335,0	18'	42'	0,6908783	350,5	0,7229662	335,0	18'	42'	0,6908783	350,5	0,7229662	335,0	18'	42'	0,6908783	350,5	0,7229662	335,0	18'	42'	0,6908783	350,5	0,7229662	335,0
13'	0,6836363	353,3	0,7287695	332,0	47'	43'	0,6910883	350,4	0,7227653	335,1	17'	43'	0,6910883	350,4	0,7227653	335,1	17'	43'	0,6910883	350,4	0,7227653	335,1	17'	43'	0,6910883	350,4	0,7227653	335,1	17'	43'	0,6910883	350,4	0,7227653	335,1
14'	0,6837633	353,2	0,7285704	332,1	46'	44'	0,6912983	350,3	0,7225644	335,2	16'	44'	0,6912983	350,3	0,7225644	335,2	16'	44'	0,6912983	350,3	0,7225644	335,2	16'	44'	0,6912983	350,3	0,7225644	335,2	16'	44'	0,6912983	350,3	0,7225644	335,2
15'	0,6838903	353,1	0,7283713	332,2	45'	45'	0,6915083	350,2	0,7223635	335,3	15'	45'	0,6915083	350,2	0,7223635	335,3	15'	45'	0,6915083	350,2	0,7223635	335,3	15'	45'	0,6915083	350,2	0,7223635	335,3	15'	45'	0,6915083	350,2	0,7223635	335,3
16'	0,6840173	353,0	0,7281722	332,3	44'	46'	0,6917183	350,1	0,7221626	335,4	14'	46'	0,6917183	350,1	0,7221626	335,4	14'	46'	0,6917183	350,1	0,7221626	335,4	14'	46'	0,6917183	350,1	0,7221626	335,4	14'	46'	0,6917183	350,1	0,7221626	335,4
17'	0,6841443	352,9	0,7279731	332,4	43'	47'	0,6919283	350,0	0,7219617	335,5	13'	47'	0,6919283	350,0	0,7219617	335,5	13'	47'	0,6919283	350,0	0,7219617	335,5	13'	47'	0,6919283	350,0	0,7219617	335,5	13'	47'	0,6919283	350,0	0,7219617	335,5
18'	0,6842713	352,8	0,7277740	332,5	42'	48'	0,6921383	349,9	0,7217608	335,6	12'	48'	0,6921383	349,9	0,7217608	335,6	12'	48'	0,6921383	349,9	0,7217608	335,6	12'	48'	0,6921383	349,9	0,7217608	335,6	12'	48'	0,6921383	349,9	0,7217608	335,6
19'	0,6843983	352,7	0,7275749	332,6	41'	49'	0,6923483	349,8	0,7215599	335,7	11'	49'	0,6923483	349,8	0,7215599	335,7	11'	49'	0,6923483	349,8	0,7215599	335,7	11'	49'	0,6923483	349,8	0,7215599	335,7	11'	49'	0,6923483	349,8	0,7215599	335,7
20'	0,6845253	352,6	0,7273758	332,7	40'	50'	0,6925583	349,7	0,7213590	335,8	10'	50'	0,6925583	349,7	0,7213590	335,8	10'	50'	0,6925583	349,7	0,7213590	335,8	10'	50'	0,6925583	349,7	0,7213590	335,8	10'	50'	0,6925583	349,7	0,7213590	335,8
21'	0,6846523	352,5	0,7271767	332,8	39'	51'	0,6927683	349,6	0,7211581	335,9	9'	51'	0,6927683	349,6	0,7211581	335,9	9'	51'	0,6927683	349,6	0,7211581	335,9	9'	51'	0,6927683	349,6	0,7211581	335,9	9'	51'	0,6927683	349,6	0,7211581	335,9
22'	0,6847793	352,4	0,7269776	332,9	38'	52'	0,6929783	349,5	0,7209572	336,0	8'	52'	0,6929783	349,5	0,7209572	336,0	8'	52'	0,6929783	349,5	0,7209572	336,0	8'	52'	0,6929783	349,5	0,7209572	336,0	8'	52'	0,6929783	349,5	0,7209572	336,0
23'	0,6849063	352,3	0,7267785	333,0	37'	53'	0,6931883	349,4	0,7207563	336,1	7'	53'	0,6931883	349,4	0,7207563	336,1	7'	53'	0,6931883	349,4	0,7207563	336,1	7'	53'	0,6931883	349,4	0,7207563	336,1	7'	53'	0,6931883	349,4	0,7207563	336,1
24'	0,6850333	352,2	0,7265794	333,1	36'	54'	0,6933983	349,3	0,7205554	336,2	6'	54'	0,6933983	349,3	0,7205554	336,2	6'	54'	0,6933983	349,3	0,7205554	336,2	6'	54'	0,6933983	349,3	0,7205554	336,2	6'	54'	0,6933983	349,3	0,7205554	336,2
25'	0,6851603	352,1	0,7263803	333,2	35'	55'	0,6936083	349,2	0,7203545	336,3	5'	55'	0,6936083	349,2	0,7203545	336,3	5'	55'	0,6936083	349,2	0,7203545	336,3	5'	55'	0,6936083	349,2	0,7203545	336,3	5'	55'	0,6936083	349,2	0,7203545	336,3
26'	0,6852873	352,0	0,7261812	333,3	34'	56'	0,6938183	349,1	0,7201536	336,4	4'	56'	0,6938183	349,1	0,7201536	336,4	4'	56'	0,6938183	349,1	0,7201536	336,4	4'	56'	0,6938183	349,1	0,7201536	336,4	4'	56'	0,6938183	349,1	0,7201536	336,4
27'	0,6854143	351,9	0,7259821	333,4	33'	57'	0,6940283	349,0	0,7199527	336,5	3'	57'	0,6940283	349,0	0,7199527	336,5	3'	57'	0,6940283	349,0	0,7199527	336,5	3'	57'	0,6940283	349,0	0,7199527	336,5	3'	57'	0,6940283	349,0	0,7199527	336,5
28'	0,6855413	351,8	0,7257830	333,5	32'	58'	0,6942383	348,9	0,7197518	336,6	2'	58'	0,6942383	348,9	0,7197518	336,6	2'	58'	0,6942383	348,9	0,7197518	336,6	2'	58'	0,6942383	348,9	0,7197518	336,6	2'	58'	0,6942383	348,9	0,7197518	336,6
29'	0,6856683	351,7	0,7255839	333,6	31'	59'	0,6944483	348,8	0,7195509	336,7	1'	59'	0,6944483	348,8	0,7195509	336,7	1'	59'	0,6944483	348,8	0,7195509	336,7	1'	59'	0,6944483	348,8	0,7195509	336,7	1'	59'	0,6944483	348,8	0,7195509	336,7
30'	0,6857953	351,6	0,7253848	333,7	30'	60'	0,6946583	348,7	0,7193500	336,8	0'	60'	0,6946583	348,7	0,7193500	336,8	0'	60'	0,6946583	348,7	0,7193500	336,8	0'	60'	0,6946583	348,7	0,7193500	336,8	0'	60'	0,6946583	348,7	0,7193500	336,8
	co-sin.	10'	sin.	10'			co-sin.	10'	sin.	10'			co-sin.	1																				

46 deg.